

10/507,485

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:28:39 ON 02 AUG 2005

=> file reg

=> s tenatoprazole

L1 8 TENATOPRAZOLE

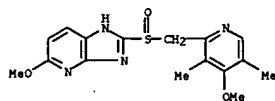
=> s tenatoprazole/cn

L2 1 TENATOPRAZOLE/CN

=> d scan

10/507,485

L2 1 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methylsulfinyl]- (9CI)
MF C16 H18 N4 O3 S
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

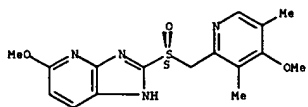
10/507,485

=> d ll scan

10/507,485

L1 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(S)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI)
MF C16 H18 N4 O3 S
CI COM

Absolute stereochemistry. Rotation (-).

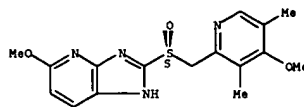


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L1 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(S)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-, sodium salt (9CI)
MF C16 H18 N4 O3 S . Na

Absolute stereochemistry. Rotation (-).

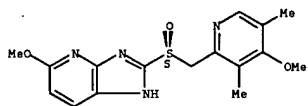


● Na

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L1 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(S)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-, potassium salt (9CI)
MF C16 H18 N4 O3 S . K

Absolute stereochemistry. Rotation (-).

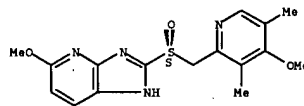


● K

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L1 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(S)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-, lithium salt (9CI)
MF C16 H18 N4 O3 S . Li

Absolute stereochemistry. Rotation (-).



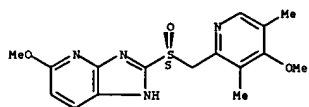
● Li

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

10/507,485

L1 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(S)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-, magnesium salt (9CI)
MF C16 H18 N4 O3 S . 1/2 Mg
CI COM

Absolute stereochemistry. Rotation (-).

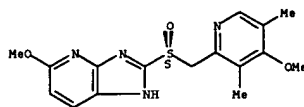


● 1/2 Mg

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L1 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(S)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-, calcium salt (9CI)
MF C16 H18 N4 O3 S . 1/2 Ca
CI COM

Absolute stereochemistry. Rotation (-).

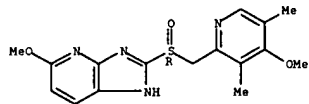


● 1/2 Ca

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L1 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(R)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI)
MF C16 H18 N4 O3 S
CI COM

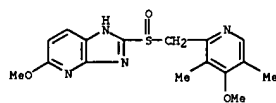
Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L1 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(S)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI)
MF C16 H18 N4 O3 S
CI COM



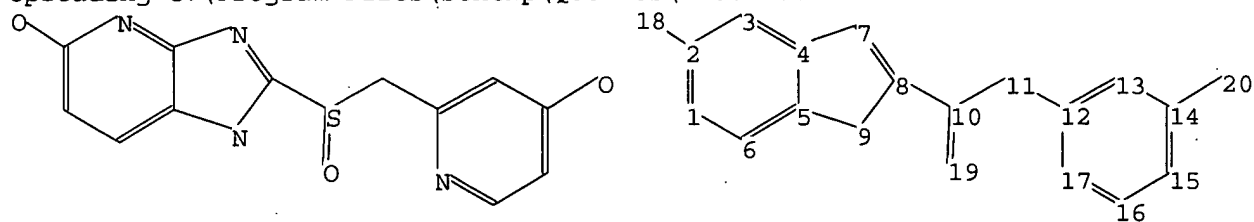
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

10/507,485

=>

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chain nodes :

10 11 18 19 20

ring nodes :

1 2 3 4 5 6 7 8 9 12 13 14 15 16 17

chain bonds :

2-18 8-10 10-11 10-19 11-12 14-20

ring bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9 12-13 12-17 13-14 14-15 15-16
16-17

exact/norm bonds :

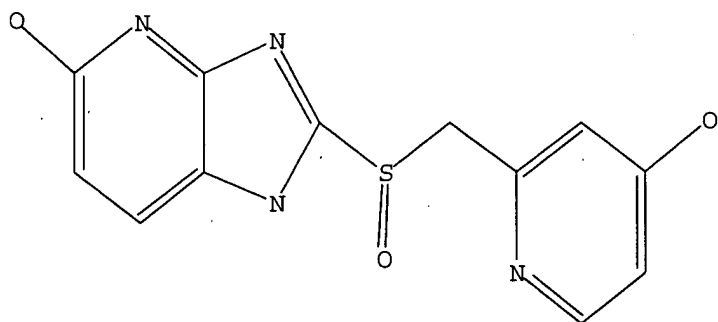
2-18 4-7 5-9 7-8 8-9 8-10 10-11 10-19 14-20

exact bonds :

11-12

normalized bonds :

10/507,485



Structure attributes must be viewed using STN Express query preparation.

=> s l3 sam

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 4 TO 200
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

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10/507,485

Match level :

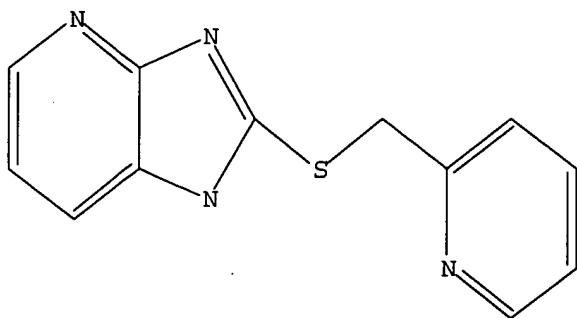
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom

L5 STRUCTURE UPLOADED

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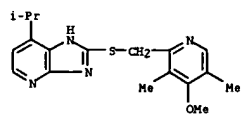
L5 HAS NO ANSWERS

L5 STR



10/507,485

L6 12 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1H-Imidazo[4,5-b]pyridine, 2-[[4-methoxy-3,5-dimethyl-2-
pyridinyl)methylthio]-7-(1-methylethyl)- (9CI)
MF C18 H22 N4 O S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

10/507,485

=> s 15 full

L7 197 SEA SSS FUL L5

=> file ca

=> s 17

L8 83 L7

=> file reg

=> s 13 full

L9 57 SEA SSS FUL L3

=> file ca

=> s 19

L10 64 L9

=> s tenatoprazole

L11 30 TENATOPRAZOLE

=> s l10 or l11

L12 64 L10 OR L11

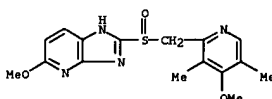
=> d ibib abs fhitr 1-64

10/507,485

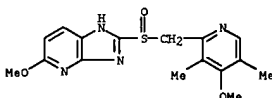
L12 ANSWER 1 OF 64 CA COPYRIGHT 2005 ACS on STM
 ACCESSION NUMBER: 143:13406 CA
 TITLE: Solid pharmaceutical formulations containing proton pump inhibitors and nonsteroidal antiinflammatory agents
 INVENTOR(S): Takada, Shigeyuki; Koyama, Hiroyoshi; Hamaguchi, Tadashi
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JXOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005145894	A2	20050609	JP 2003-386548	20031117

PRIORITY APPLN. INFO.:
 AB The invention relates to a solid pharmaceutical formulation characterized by containing granules or tablet of a proton pump inhibitor (PPI), and granules of a nonsteroidal antiinflammatory agent (NSAID), wherein the addition of the PPI in the formulation prevents gastrointestinal injury due to NSAID. For example, a capsule containing lansoprazole granules (lansoprazole 30 mg) and diclofenac sodium sustained-release granules (diclofenac sodium 100 mg) was formulated.
 IT 113712-98-4, Tenatoprazole
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (solid pharmaceutical formulations containing proton pump inhibitors and nonsteroidal antiinflammatory agents)
 RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



L12 ANSWER 2 OF 64 CA COPYRIGHT 2005 ACS on STM (Continued)



L12 ANSWER 2 OF 64 CA COPYRIGHT 2005 ACS on STM
 ACCESSION NUMBER: 143:13313 CA
 TITLE: Methods and compositions for the treatment of Helicobacter pylori-associated diseases using endoperoxide bridge-containing compounds
 INVENTOR(S): Marash, Michael; Kluev, Elena
 PATENT ASSIGNEE(S): Vecta Ltd., Israel
 SOURCE: PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005048912	A2	20050602	WO 2004-1B3759	20041117

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG

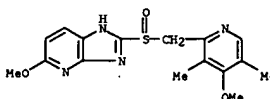
PRIORITY APPLN. INFO.:
 US 2003-523114P P 20031119
 AB The present invention relates to methods and compns. for treating pathol. conditions associated with ferrous-dependent bacteria such as H. pylori in which high intracellular ferrous iron concentration is required for their survival and pathogenesis. The compns. of the invention comprise endoperoxide bridge-containing compds. that specifically inhibit the growth of the ferrous-dependent bacteria and preferably promote the eradication of the bacteria. The compns. typically also include at least one active agent for treating Helicobacter species-related gastrointestinal disorders, such as a proton pump inhibitor, an H2 blocker or a bismuth-containing compound. Thus, each capsule contains the following ingredients: omeprazole as enteric-coated beads 40, artesunate granules 250, calcium carbonate 550, HPMC and Polox WSR-N60.
 IT 113712-98-4, Tenatoprazole
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (compns. for treatment of Helicobacter pylori-associated diseases using endoperoxide bridge-containing compds.)
 RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)

L12 ANSWER 3 OF 64 CA COPYRIGHT 2005 ACS on STM
 ACCESSION NUMBER: 142:469277 CA
 TITLE: Chewable tablet containing an acid-labile active ingredient
 INVENTOR(S): Sugaya, Masae; Koyama, Hiroyoshi; Hamaguchi, Naoru
 PATENT ASSIGNEE(S): Takeda Pharmaceutical Company Limited, Japan
 SOURCE: PCT Int. Appl., 63 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005044223	A1	20050519	WO 2004-JP16701	20041104

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:
 JP 2005154431 A2 20050616 JP 2004-320057 20041104
 JP 2003-378470 A 20031107
 AB A chewable tablet comprises a group which contains an acid-labile active ingredient and at least one basic substance selected from alkaline earth metal carbonate, metal oxide and metal hydroxide, and a group which does not contain an acid-labile active ingredient and contains at least one ingredient selected from alkaline earth metal carbonate, metal oxide and metal hydroxide, wherein said chewable tablet is capable of rapidly neutralizing gastric acid and is preferably not enteric-coated, is provided. Tablets were prepared from granules containing lansoprazole, CaCO₃, D-mannitol, and hydropropyl cellulose.
 IT 113712-98-4, Tenatoprazole
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (chewable tablet containing an acid-labile active ingredient)
 RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



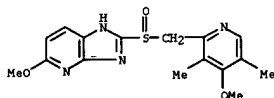
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/507,485

L12 ANSWER 4 OF 64 CA COPYRIGHT 2005 ACS on STM
 142:469276 CA
 TITLE: Combination of proton pump inhibitor and sleep aid
 INVENTOR(S): Hall, Warren; Olmstead, Kay; Proehl, Gerald T.
 PATENT ASSIGNER(S): Santarus, Inc., USA
 SOURCE: PCT Int. Appl., 73 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005044199	A2	20050519	WO 2004-US36989	20041105
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DF, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CH, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

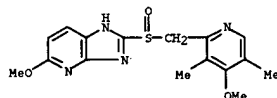
PRIORITY APPL. INFO.: US 2003-S17743P P 20031105
 AB . Pharmaceutical comps. comprising a proton pump inhibitor, one or more buffering agent and a sleep aid are described. Methods are described for treating gastric acid related disorders and inducing sleep, using pharmaceutical comps. comprising a proton pump inhibitor, a buffering agent, and a sleep aid. Capsules were prepared containing omeprazole, buffers, triazolam sleep aid and excipients.
 IT 113712-98-4, Tenatoprazole
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combination of proton pump inhibitor and sleep aid)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



L12 ANSWER 5 OF 64 CA COPYRIGHT 2005 ACS on STM
 142:441631 CA
 TITLE: A comparative study of the early effects of omeprazole 40 mg and esomeprazole 40 mg on intragastric pH in healthy volunteers
 Galmiche, J. P.; Sacher-Huvelin, S.; Des Varannes, S.; Bruley, V.; Vavasseur, F.; Taccon, A.; Fioravanti, P.; Homerin, M.
 CORPORATE SOURCE: CIC-INSEPM-CHU de Nantes, Toussus-le-Noble, Fr.
 SOURCE: Alimentary Pharmacology and Therapeutics (2005), 21(5), 575-582
 CODEN: APTHEN; ISSN: 0269-2813
 PUBLISHER: Blackwell Publishing Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Background: Tenatoprazole is a novel proton pump inhibitor with a seven-hour plasma half-life. Aim: To compare the effects of tenatoprazole 40 mg and esomeprazole 40 mg on intragastric acidity during the first 48 h in healthy volunteers. Methods: This randomized two-period crossover study included 24 Helicobacter Pylori-neg. subjects; tenatoprazole 40 mg or esomeprazole 40 mg daily were given before breakfast for two consecutive days, with a 2-wk wash-out between the administration periods. Intragastric pH was monitored for 48 h. Results: Over 48 h, tenatoprazole 40 mg exerted a more potent acid inhibition than esomeprazole 40 mg (median pH: 4.3 vs. 3.9, P < 0.05; per cent of time above pH 4: 574 vs. 494, P < 0.03; proportion of subjects with at least half of the time above pH 4: 714 vs. 464). These differences resulted from better night-time acid control with tenatoprazole 40 mg than esomeprazole 40 mg (first night median pH: 4.2 vs. 2.9, P < 0.0001; second night: 4.5 vs. 3.2, P < 0.0001). The duration of nocturnal acid breakthroughs was significantly reduced during both nights. In contrast, no significant difference was detected during the daytime periods between both regimens. Conclusion: Over the first 48 h, tenatoprazole 40 mg achieves a better overall and night-time control of gastric pH than esomeprazole 40 mg. The translation of better early control of acidity into clin. benefits deserves further studies.
 IT 113712-98-4, Tenatoprazole
 RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tenatoprazole 40 mg and esomeprazole 40 mg was well tolerated, suppressed acid production, where T40 was more potent than E40 in better overall night-time control with reduced nocturnal acid break through in H.pylori neg. healthy human)

RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)

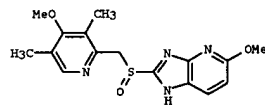


REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS

L12 ANSWER 5 OF 64 CA COPYRIGHT 2005 ACS on STM (Continued)
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

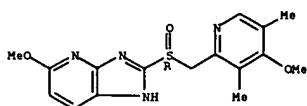
L12 ANSWER 6 OF 64 CA COPYRIGHT 2005 ACS on STM
 142:430268 CA
 TITLE: Preparation of (S)- and (R)-enantiomers of tenatoprazole as H+/K+ ATPase inhibitors
 Li, Shuxin; Zhao, Yanjin; Guo, Jinhua
 INVENTOR(S):
 PATENT ASSIGNER(S): Institute of Radiomedicine, Academy of Military Medical Science of PLA, Peop. Rep. China
 SOURCE: Faming Zhuanli Shengqing Gongkai Shuomingshu, 9 pp.
 CODEN: CNXKEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1453278	A	20031105	CN 2002-117637	20020510
PRIORITY APPL. INFO.: CASREACT 142:430268			CN 2002-117289	A 20020423
OTHER SOURCE(S):				
GI				



AB The invention is related to (S)- and (R)-enantiomers of tenatoprazole I and pharmaceutically acceptable salts thereof, their preparation and uses. (S)-I was synthesized by enantioselective oxidation of the corresponding sulfide with dicumyl peroxide in the presence of (i-PrO)4Ti and D-tartaric acid di-Et ester in 71.5% yield. (R)-I was obtained via oxidation of the corresponding sulfide with m-chloroperbenzoic acid followed by chiral HPLC resolution (37.5% yield). The two enantiomers showed stronger activity than omeprazole and comparable activity to tenatoprazole both in an inhibition assay against H+/K+ ATPase and in a gastric acid secretion-inhibition test in rat. Therefore, the invented compds. are useful for the treatment of gastric acid secretion disorders.
 IT 705969-00-2P
 RL: PAC (Pharmacological activity); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of (S)- and (R)-enantiomers of tenatoprazole as H+/K+ ATPase inhibitors)
 RN 705969-00-2 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)

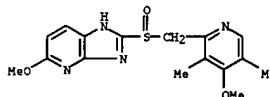
Absolute stereochemistry. Rotation (+).



L12 ANSWER 7 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 142:291467 CA
 TITLE: Use of known active ingredients as radical scavengers
 INVENTOR(S): Simon, Wolfgang-Alexander; Sturm, Ernst
 PATENT ASSIGNEE(S): Altana Pharma AG, Germany
 SOURCE: PCT Int. Appl., 17 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005025569	A1	20050324	WO 2004-EP52233	20040917
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HK, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2003-21094 A 20030918
 AB The invention relates to the use of certain proton pump inhibitors in the treatment of pathol. manifestations induced or influenced by free radicals.
 IT 113712-98-4, Tenatoprazole
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (use of known active ingredients as radical scavengers)
 RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

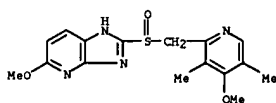
L12 ANSWER 8 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 142:285224 CA
 TITLE: Pharmaceutical compositions comprising substituted benzimidazole proton pump inhibitors and buffering agents, and methods of use
 INVENTOR(S): Phillips, Jeffrey O.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 56 pp., Cont.-in-part of U.S. Ser. No. 722,184.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005054682	A1	20050310	US 2004-898135	20040723
US 5840737	A	19981124	US 1996-680376	19960715
US 6489346	B1	20021203	US 2000-481207	20000111
US 2002045646	A1	20020418	US 2001-901942	20010709
US 6645988	B2	20031111		
US 2003191159	A1	20031009	US 2002-54350	20020119
US 6699885	B2	20040302		
US 2004171646	A1	20040902	US 2003-722184	20031125

PRIORITY APPLN. INFO.:
 US 1996-9608P P 19960104
 US 1996-680376 A2 19960715
 US 1998-183422 B2 19981030
 US 2000-481207 A2 20000111
 US 2001-901942 A2 20010709
 US 2002-54350 A1 20020119
 US 2003-722184 A2 20031125

AB The invention discloses, inter alia, pharmaceutical compns. comprising at least one proton pump inhibitor and at least one buffering agent. Compns. of the invention are useful in treating, inter alia, gastric acid related disorders.

IT 113712-98-4, Tenatoprazole
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (pharmaceutical compns. comprising substituted benzimidazole proton pump inhibitors and buffering agents, and methods of use)
 RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



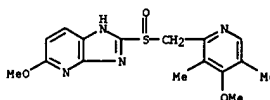
L12 ANSWER 9 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 142:191277 CA
 TITLE: Alkaline salts of proton pump inhibitors
 INVENTOR(S): Sturm, Ernst; Hummel, Rolf-Peter; Kohl, Bernhard; Mueller, Bernd
 PATENT ASSIGNEE(S): Altana Pharma AG, Germany
 SOURCE: PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005011692	A1	20050210	WO 2004-EP51578	20040722
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: EP 2003-16759 A 20030723
 EP 2003-16760 A 20030723
 AB The invention relates to alkaline salts of proton pump inhibitors and to medicaments comprising these compds. Accordingly, the invention provides in a general aspect alkaline reacting salts of pyridin-2-ylmethylsulfinyl-1H-benzimidazoles with H⁺/K⁺-ATPase-inhibitory activity.

IT 113712-98-4D, Tenatoprazole, metal salts
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (alkaline salts of proton pump inhibitors such as pyridin-2-ylmethylsulfinyl-1H-benzimidazoles with H⁺/K⁺-ATPase-inhibitory activity for treatment of gastrointestinal disorders)

RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

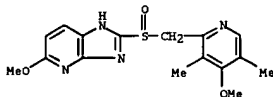
10/507,485

L12 ANSWER 10 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 142:183479 CA
 TITLE: Immediate-release formulation of acid-labile drugs
 INVENTOR(S): Phillips, Jeffrey O.; Widder, Ken J.
 PATENT ASSIGNEE(S): The Curators of the University of Missouri, USA;
 Santarus, Inc.
 SOURCE: PCT Int. Appl., 90 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

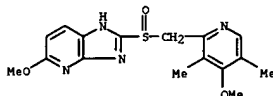
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005009381	A2	20050203	WO 2004-US23558	20040722
WO 2005009381	A3	20050616		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IE, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2005112193 A1 20050526 US 2004-896682 20040722
 PRIORITY APPL. INFO.: US 2003-489324 P 20030718
 AB The present invention provides, inter alia, compns. comprising a pH buffering agent and a controlled-release component containing an acid-labile pharmaceutical. Methods of using such compns. are also provided. Microgranules of omeprazole were coated with Eudragit L300-55.
 IT 113712-98-4, Tenatoprazole
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (Immediate-release formulation of acid-labile drugs)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



L12 ANSWER 11 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)



L12 ANSWER 11 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 142:183427 CA
 TITLE: Pharmaceutical formulation and method for treating acid-caused gastrointestinal disorders
 INVENTOR(S): Hall, Warren; Olmstead, Kay; Weston, Laura
 PATENT ASSIGNEE(S): Santarus, Inc., USA
 SOURCE: PCT Int. Appl., 64 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005007117	A2	20050127	WO 2004-US23044	20040716
WO 2005007117	A3	20050616		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IE, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2005031700 A1 20050210 US 2004-893092 20040716
 PRIORITY APPL. INFO.: US 2003-488324 P 20030718
 AB Oral pharmaceutical formulations in the form of a powder for suspension comprising (i) at least one proton pump inhibitor in micronized form; (ii) at least one antacid; and (iii) at least one suspending agents are provided. Also provided are methods for making and using pharmaceutical formulations comprising at least one proton pump inhibitor and at least one antacid. For example, an omeprazole powder for suspension was prepared containing sodium bicarbonate for protecting omeprazole from acid degradation in vivo. The powder comprised omeprazole 20 mg, sodium bicarbonate 1895 mg, xylitol 300 (sweetener) 2000 mg, sucrose powder (sweetener) 1750 mg, sucralose (sweetener) 125 mg, xanthan gum 17 mg, peach flavor 47 mg, and peppermint 26 mg.
 IT 113712-98-4, Tenatoprazole
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (oral formulations containing antacid and proton pump inhibitor for treating acid-caused gastrointestinal disorders)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)

L12 ANSWER 12 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 142:183426 CA
 TITLE: Pharmaceutical formulations useful for inhibiting acid secretion
 INVENTOR(S): Hall, Warren; Olmstead, Kay; Weston, Laura
 PATENT ASSIGNEE(S): Santarus, Inc., USA
 SOURCE: PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005007115	A2	20050127	WO 2004-US22914	20040716
WO 2005007115	A3	20050616		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IE, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2005037070 A1 20050217 US 2004-893203 20040716
 PRIORITY APPL. INFO.: US 2003-488321 P 20030718

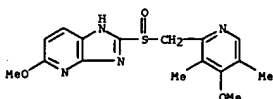
AB In one general aspect of the present invention, oral pharmaceutical formulations comprising both a proton pump inhibitor microencapsulated with a material that enhances the shelf-life of the pharmaceutical composition and one or more antacid are described. In another general aspect of the present invention, pharmaceutical formulations comprising both a proton pump inhibitor microencapsulated with a taste-masking material and one or more antacid are described. For example, omeprazole was microencapsulated by spray drying of an aqueous mixture of Kollicoat IR, PEG 3350 and EHT at

10% of the encapsulated material. Encapsulated omeprazole (40 mg potency), sodium bicarbonate (1260 mg), calcium carbonate (790 mg), croscarmellose sodium (64 mg), Klucel (160 mg), Xylitab 100 (380 mg), microcryst. cellulose (128 mg), sucralose (162 mg), peppermint duraroma (34 mg), peach flavor (100 mg), masking powder (60 mg), Fd&C Lake Number 40 Red (3 mg), and magnesium stearate (32 mg) were pressed into chewable tablets with diam. of about 10 mm and average weight of approx. 600 mg per tablet.

IT 113712-98-4, Tenatoprazole
 RL: PKT (Pharmacokinetics); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (oral formulations containing antacid and microencapsulated proton pump inhibitor for inhibition of gastric acid secretion)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)

10/507,485

L12 ANSWER 12 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

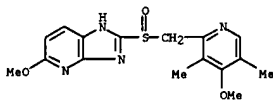
L12 ANSWER 13 OF 64 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 142:141266 CA
 TITLE: Solid composition comprising a proton pump inhibitor and therapeutic uses for gastrointestinal disorders
 INVENTOR(S): Blychert, Eva; Janssen, Marjo
 PATENT ASSIGNER(S): AstraZeneca AB, Swed.
 SOURCE: PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005004921	A1	20050120	NO 2004-SK1113	20040708
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2003-486795P P 20030711
 AB The present invention relates to a method for oral administration of a solid composition comprising an acid labile proton pump inhibitor compound in the form of a multiple of enteric coating layered pellets, wherein the pellets are in admixt. with one or more pharmaceutically acceptable thickeners and an aqueous carrier, and the thickener is capable of forming a viscous medium when dispersed in the aqueous carrier. Alternatively, the enteric coated pellets are in admixt. with a viscous aqueous medium. The formed aqueous suspension is to be administered via a gastric tube. The method and composition are especially aimed for treatment of patients in need of a proton pump inhibitor, i.e. in the treatment of gastrointestinal disorders and having difficulties to swallow or for pediatric patients.
 IT 113712-98-4, Tenatoprazole
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (solid composition comprising proton pump inhibitor and therapeutic uses for gastrointestinal disorders)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)

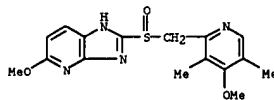
L12 ANSWER 13 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)



L12 ANSWER 14 OF 64 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 142:28328 CA
 TITLE: Detection of related substances by RP-HPLC in tenatoprazole tablets
 AUTHOR(S): Xu, Song-lin; Wang, Dong-kai; Liu, Lai; Gao, Fei; Cheng, Mao-sheng; Li, Hong-bin
 CORPORATE SOURCE: Department of Pharmaceutics, Shenyang Pharmaceutical University, Shenyang, 110016, Peop. Rep. China
 SOURCE: Zhongguo Xinyao Zazhi (2004), 13(9), 823-825
 CODEN: ZXZHA6; ISSN: 1003-3734
 PUBLISHER: Zhongguo Xinyao Zazhishe
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese

AB A method to determine the related substances in tenatoprazole tablets by RP-HPLC was established. The following assay conditions were established: C18 column (250 mm R 4.6mm, 5 μm) as stationary phase; acetonitrile-phosphate buffers solution (30:70) as the mobile phase, and the detection wavelength at 306 nm. Separation of tenatoprazole from the related substances was attained. Three batches of samples were tested for the related substances. The result was 0.63%, 0.71%, 0.76%, resp. The simple and accurate method can be used to detect the related substances in tenatoprazole tablets.
 IT 113712-98-4, Tenatoprazole
 RL: ANT (Analyte); ANST (Analytical study)
 (determination of tenatoprazole in tablets by RP-HPLC)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



10/507,485

L12 ANSWER 15 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 142:28146 CA
 TITLE: Extended release compositions of proton pump inhibitors
 INVENTOR(S): Wood, Ray
 PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 100 pp.
 CODEN: PIXX02
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004103291	A2	20041202	WO 2004-US15076	20040513
WO 2004103291	A3	20050324		

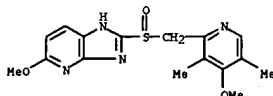
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 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CH, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-470876P P 20030516
 US 2003-485744P P 20030710

OTHER SOURCE(S): MARPAT 142:28146
 AB The invention provides extended release compns. comprising at least one proton pump inhibitor. The invention also provides methods for treating gastrointestinal disorders by administering the compns. of the invention to patients in need of gastrointestinal therapy.

IT 113712-98-4, Tenatoprazole
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (extended release compns. of proton pump inhibitors)

RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



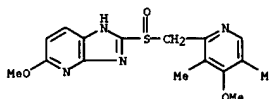
L12 ANSWER 16 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 141:360444 CA
 TITLE: Tenatoprazole, a novel proton pump inhibitor with a prolonged plasma half-life: effects on intragastric pH and comparison with esomeprazole in healthy volunteers
 AUTHOR(S): Galmiche, J. P.; des Varannes, S.; Bruley; Ducrotte, P.; Sacher-Huvelin, S.; Vavasseur, F.; Taccon, A.; Fiorentini, P.; Homerin, M.
 CORPORATE SOURCE: CIC-INSEPH, CHU de Nantes, Nantes, Fr.
 SOURCE: Alimentary Pharmacology and Therapeutics (2004), 19(6), 655-662
 CODEN: APTEH; ISSN: 0269-2813

PUBLISHER: Blackwell Publishing Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Background: Proton pump inhibitors control gastric acidity better during the day than at night, when nocturnal acid breakthrough can occur. Tenatoprazole is a novel proton pump inhibitor with a seven-fold longer plasma half-life. Aim: To compare the effects of tenatoprazole 20 mg (T20), tenatoprazole 40 mg (T40) and esomeprazole 40 mg (E40) on intragastric acidity in healthy volunteers. Methods: This randomized, three-period, cross-over study enrolled 18 Helicobacter pylori-neg. volunteers, who received E40, T20 and T40 once daily for 7 days with a 14-day washout between periods. Twenty-four-hour gastric pH monitoring was performed on day 7. Serum gastrin was assessed on day 8. Results: T40 induced a more potent acid inhibition than T20 (24-h median pH: 4.6 vs. 4.0, P < 0.01; daytime: 4.5 vs. 3.9, P < 0.01; night-time: 4.7 vs. 4.1, P < 0.05). T40 was more potent than E40 (24-h median pH: 4.6 vs. 4.2, P < 0.05; night-time: 4.7 vs. 3.6, P < 0.01); the pH > 4 holding time was higher during the night for T40 than for E40: 64.3% vs. 46.8%, P < 0.01; the nocturnal acid breakthrough duration was significantly shorter for T40 than for E40. No significant gastrin increase was observed and all drugs were well tolerated. Conclusion: T40 is significantly more potent than T20 and E40 during the night. The therapeutic relevance of this pharmacol. advantage deserves further study.

IT 113712-98-4, Tenatoprazole
 RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (tenatoprazole with prolonged plasma half-life and esomeprazole were well tolerated, highly effective in controlling intragastric pH with no significant gastrin increase, but T40 was more potent than T20, E40 during night in healthy human)

RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS

L12 ANSWER 16 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 17 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 141:332197 CA
 TITLE: Method for the enantioselective preparation of sulfoxide derivatives by asymmetric oxidation of sulfides with vanadium or tungsten catalysts and chiral ligands, and its application to the enantioselective preparation of tenatoprazole and omeprazole enantiomers
 INVENTOR(S): Cohen, Avraham; Charbit, Suzy; Schutze, Francois; Martine, Frederic
 PATENT ASSIGNEE(S): Sidem Pharma, Luxembourg
 SOURCE: PCT Int. Appl., 27 pp.
 CODEN: PIXX02
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087702	A2	20041014	WO 2004-FR778	20040326
WO 2004087702	A3	20041111		

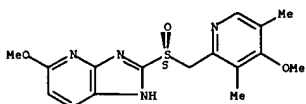
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HK, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SV, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CH, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

FR 2852956 A1 20041001 FR 2003-3914 20030328
 FR 2863611 A1 20050617 FR 2003-14679 20031215
 PRIORITY APPLN. INFO.: FR 2003-3914 A 20030328
 FR 2003-14679 A 20031215

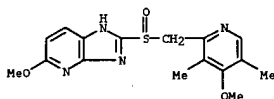
OTHER SOURCE(S): MARPAT 141:332197
 AB The invention relates to a method for the enantioselective preparation of substituted sulfoxide derivs. by asym. oxidation of corresponding sulfides. The method comprises enantioselective oxidation of a sulfide A-CH2-S-B, where

A is a variably substituted pyridyl nucleus and B is a heterocyclic group with a benzimidazole or imidazopyridyl nucleus, by an oxidizing agent in the presence of a V- or V-based catalyst and a chiral ligand, followed, where necessary, by salt formation with a base, to give a sulfoxide: A-CH2-SO-B. The method is applicable to the enantioselective preparation of compds. such as the enantiomers of tenatoprazole and other comparable sulfoxides. Oxidants include H2O2, urea-H2O2, cumene hydroperoxide, and tert-BuOOH. Catalysts include WO3, vanadium acetylacetonate, and vanadium sulfate. Chiral ligands include amino acids, amino ethers, amino acids and esters, and salicylaldehyde imine derivs. of these. For instance, the sulfide 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]thio]imidazo[4,5-b]pyridine was oxidized by 30% H2O2 using WO3 and the chiral amino ether (DHQD)2-PYR (a cinchon alkaloid) in THF at 4-5° to give (S)-(-)-tenatoprazole in 70% yield and > 90% enantiomeric excess (ee). Recrystn. from MeOH/H2O or DMF/EtOAc increased the ee to > 99%. A similar run using (DHQD)2-PYR as the chiral ligand gave (R)-(+)-tenatoprazole in 93% ee after recrystn. from DMF/EtOAc. Likewise, using (DHQD)2-PYR, (S)-(-)-omeprazole was obtained in a yield of 72% and approx. 90% initial ee.

L12 ANSWER 17 OF 64 CA COPYRIGHT 2005 ACS ON STN (Continued)
 IT 705968-86-1P, (S)-(-)-Tenatoprazole
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (target compound: enantioselective preparation of sulfoxides by asym. oxidation of sulfides with vanadium or tungsten catalysts and chiral ligands and application to tenatoprazole and omeprazole enantiomers)
 RN 705968-86-1 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (SCI) (CA INDEX NAME)
 Absolute stereochemistry. Rotation (-).



L12 ANSWER 18 OF 64 CA COPYRIGHT 2005 ACS ON STN (Continued)
 pyridinyl)methyl]sulfinyl]- (SCI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 19 OF 64 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 141:320050 CA
 TITLE: Controlled-release compositions containing proton pump inhibitors
 INVENTOR(S): Nagahara, Naoki; Miyamoto, Keiko; Akiyama, Yokho
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 243 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004082665	A1	20040920	WO 2004-JP3483	20040316
W: AE, AG, AL, AM, AN, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

JP 2004300149 A2 20041028 JP 2004-75037 20040316
 PRIORITY APPLN. INFO.: JP 2003-72858 A 20030317

AB It is intended to provide a controlled release composition in which the release of its active ingredient (a proton pump inhibitor) is controlled in two or more steps with different release speeds. This composition, which comprises (1) a release-controlling part A capable of controlling the release speed of the active ingredient at a definite level, and (2) a release-controlling part B capable of controlling the release speed of the active ingredient at a definite level which is lower than the release speed in the release-controlling part A, optionally together with (3) a release-controlling part C capable of controlling the release speed of the active ingredient at a definite level which is higher than the release speed in the release-controlling part B, if necessary, is characterized in that the release of the active ingredient in the release-controlling part B is first made followed by the release of the active ingredient in the release-controlling part A (in the case of having the release-controlling part C, the release of the active ingredient in the release-controlling part C is first made followed by the release of the active ingredient in the release-controlling part B). Thus, a core tablet prepared from R-lansoprazole 113, lactose 303, corn starch 50, low-substituted hydroxypropyl cellulose (L-HPC) 35 mg was layered with an outer layer material coating R-lansoprazole 33.8, hydroxypropyl Me cellulose (Metolose 65SH-4000) 116.3 mg to obtain a controlled-release tablet.

IT 113712-98-4, 5-Methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-1H-imidazo[4,5-b]pyridine
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of proton pump inhibitors for controlled-release compns.)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-

L12 ANSWER 19 OF 64 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 141:314327 CA
 TITLE: Process for preparation of sulfoxides, in particular enantiomers of tenatoprazole and its related derivatives by enantioselective oxidation of sulfides
 INVENTOR(S): Schutze, Francois; Charbit, Suzy; Cohen, Avraham; Martinet, Frederic
 PATENT ASSIGNEE(S): Negama Gild Fr.
 SOURCE: Fr. Demande, 21 pp.
 CODEN: ERXKEL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2852956	A1	20041001	FR 2003-3914	20030328
WO 2004087702	A2	20041014	WO 2004-FR778	20040326
WO 2004087702	A3	20041111		
W: AE, AG, AL, AM, AN, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: FR 2003-3914 A 20030328
 FR 2003-14679 A 20031215

OTHER SOURCE(S): MARPAT 141:314327
 GI

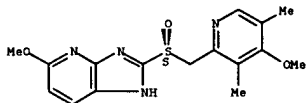
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention is related to a method of preparation of sulfoxides and their basic salts, of formula A-CH₂-S-B, in particular enantiomers of tenatoprazole (I) and derivs., by enantioselective oxidation of a sulfide of formula A-CH₂-SO-B with an oxidation agent in the presence of a catalyst containing tungsten or of vanadium and of a chiral ligand, of formula RO-CR1R2-CR3R4-NR5R6, followed if necessary by base treatment [wherein A = substituted pyridinyl; B = benzimidazolyl, imidazopyridinyl; R = H, alkyl, heteroaryl; R1, R2, R3, R4 = independently alkyl, heteroaryl with provisos: R5, R6 = alkyl; or NR5R6 = heterocyclyl; -N:CHAr; Ar = substituted aryl]. The method provides high enantiomeric excess (e.e.) values (> 90%). Thus, oxidation of sulfide II with H2O2 in the presence of WO3, ligand III in THF gave (S)-(-)-I in > 99% e.e.
 IT 705968-86-1P, (-)-5-Methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]imidazo[4,5-b]pyridine
 RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)
 (sulfoxide product) preparation of sulfoxides, in particular enantiomers of tenatoprazole and its related derivs., by enantioselective oxidation of sulfides)

10/507,485

L12 ANSWER 19 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)
 RN 705968-86-1 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(S)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

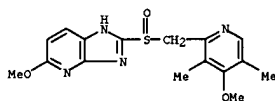


REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 20 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 141:282815 CA
 TITLE: Drug composition having active ingredient adhered at high concentration to spherical core
 INVENTOR(S): Yoneyama, Shuji; Bando, Hiroto
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 237 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004080439	A1	20040923	WO 2004-JP3075	20040310
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004292442	A2	20041021	JP 2004-66456	20040310
PRIORITY APPL. INFO.: JP 2003-66344 A 20030312				
OTHER SOURCE(S): MARPAT 141:282815				
AB Granule, fine particle or tablet of excellent leaching property, comprising a drug active ingredient in high content realized by forming a layer containing drug active ingredient on core particles through a combination of a method of dispersing and adhering an active ingredient while spraying or adding a binder with a method of spraying or adding a solution or suspension wherein an active ingredient and a binder are contained so as to effect adhesion. Further, there are provided a drug composition containing such a granule, fine particle or tablet and a process for producing the same. Thus, original granules of crystalline cellulose were prepared by spraying a composition (R)-lansoprazole (I), crystalline cellulose, magnesium carbonate, and hydroxypropyl cellulose to crystalline cellulose.				
The obtained granules were further coated with a 1st coating material containing I, magnesium carbonate, sucrose, and hydroxypropyl cellulose, a 2nd coating material containing hydroxypropyl Me cellulose, talc, and titanium oxide, and then an enteric coating material containing methacrylic acid copolymer, talc, macrogol, titanium oxide, and polysorbate 80, or another enteric coating material containing different methacrylic acid copolymers, talc, and tri-Et citrate. The granules with different enteric coatings were mixed and filled in capsules.				
IT 113712-98-4, 5-Methoxy-2-[(S)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-1H-imidazo[4,5-b]pyridine RL: RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses) (preparation of drug composition containing proton pump inhibitors adhered at high				

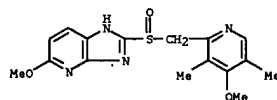
L12 ANSWER 20 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)
 concn. to spherical core)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(S)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 21 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 141:254601 CA
 TITLE: Preventive or remedy for teeth grinding containing gastric acid inhibitors
 INVENTOR(S): Miyawaki, Shouichi; Yamamoto, Teruko
 PATENT ASSIGNEE(S): Eisai Co. Ltd., Japan
 SOURCE: PCT Int. Appl., 28 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004080487	A1	20040923	WO 2004-JP939	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPL. INFO.: JP 2003-68755 A 20030313				
AB It is intended to provide a preventive or a remedy for teeth grinding and diseases relating thereto which contains as the active ingredient at least one member selected from among proton pump inhibitors, histamine H2 receptors and acid pump antagonists. Examples of the proton pump inhibitors include rabeprazole, omeprazole, esomeprazole, lansoprazole, pantoprazole, tenatoprazole, salts thereof and hydrates of the same. The effect of rabeprazole sodium salt tablet (Pariet) in patients with teeth grinding was examined.				
IT 113712-98-4, Tenatoprazole RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preventive or remedy for teeth grinding and teeth grinding-related disease containing gastric acid inhibitors)				
RN 113712-98-4 CA CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(S)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)				



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/507,485

L12 ANSWER 22 OF 64 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 141:248724 CA
TITLE: The enantiomers of tenatoprazole for therapeutic uses
INVENTOR(S): Yamashita, Setsuo; Ebina, Kengo
PATENT ASSIGNEE(S): Mitsubishi Pharma Corporation, Japan
SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004074285	A1	20040902	WO 2004-JP2087	20040223
W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DE, DE, DK, DK, DM, DM, EC, EC, EE, EE, EG, EG, ES, ES, FI, FI, GB, GB, GE, GE, GH, GH, HR, HR, HU, HU, ID, ID, IL, IL, IS, JP, JP, KE, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, LC, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI				
RW: BW, GH, GH, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

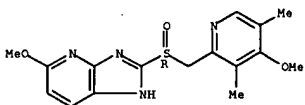
PRIORITY APPLN. INFO.: JP 2003-46335 A 20030224

AB This invention relates to (+)- and (-)- enantiomers of tenatoprazole. The compds. and pharmaceutical compns. are useful as antiulcer agents. Thus, tablets contained (-)-tenatoprazole 30.0, lactose 40.0, aluminum hydroxide 17.5, hydroxypropyl cellulose 8.0, talc 4.5, TiO2 5.0, Mg stearate 20, and usual excipients 160.0 mg.

IT 705969-00-2P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(+)-tenatoprazole; enantiomers of tenatoprazole for therapeutic uses

RN 705969-00-2 CA
CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(R)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 23 OF 64 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 141:230698 CA
TITLE: Omeprazole antacid complex-immediate release for rapid and sustained suppression of gastric acid
INVENTOR(S): Hepburn, Bonnie; Goldlust, Barry
PATENT ASSIGNEE(S): Santarus, Inc., USA
SOURCE: PCT Int. Appl., 121 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004073654	A2	20040902	WO 2004-US5170	20040220
WO 2004073654	A3	20050113		
W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DE, DE, DK, DK, DM, DM, EC, EC, EE, EE, EG, EG, ES, ES, FI, FI, GB, GB, GE, GE, GH, GH, HR, HR, HU, HU, ID, ID, IL, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, KZ, LC, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI				
RW: BW, GH, GH, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2004-783871 20040220
US 2003-448627P P 20030220

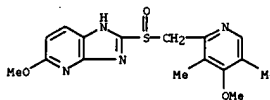
AB The present invention is directed to methods, kits, combinations, and compns. for treating, preventing or reducing the risk of developing a gastrointestinal disorder or disease, or the symptoms associated with, or related to a gastrointestinal disorder or disease in a subject in need thereof. In one aspect, the present invention provides a pharmaceutical composition comprising a proton pump inhibiting agent and a buffering agent for oral administration and ingestion by a subject. Upon administration, the composition contacts the gastric fluid of the stomach and increases the gastric fluid pH of the stomach to a pH that substantially prevents or inhibits acid degradation of the proton pump inhibiting agent in the gastric fluid and allows a measurable serum concentration of the proton pump inhibiting agent to be absorbed into the blood serum of the subject. Omeprazole powder plus a chewable tablet of NaHCO3 and CaCO3 resulted in more rapid absorption in humans when compared to a marketed omeprazole delayed-release formulation.

IT 113712-98-4 Tenatoprazole
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(omeprazole antacid complex-immediate release for rapid and sustained suppression of gastric acid)

RN 113712-98-4 CA
CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(R)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)

L12 ANSWER 22 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)

L12 ANSWER 23 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)



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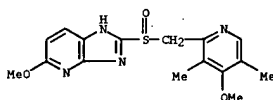
L12 ANSWER 24 OF 64 CA COPYRIGHT 2005 ACS on STN
 141:145707 CA
 ACCESSION NUMBER:
 TITLE: Method for the administration of acid-labile drugs
 using basic salts with calcium, magnesium or aluminum
 INVENTOR(S): Sharma, Virender K.; Howden, Colin W.
 PATENT ASSIGNER(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 8 pp., Cont.-in-part of U.S.
 Ser. No. 824,847.
 CODEN: USXKCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004146554	A1	20040729	US 2004-755656	20040112
US 2002146451	A1	20021010	US 2001-824847	20010404
PRIORITY APPLN. INFO.:			US 2000-218509P	P 20000715
			US 2001-824847	A2 20010404

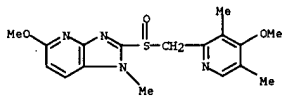
AB A method for the formulation and delivery for administration of acid-labile drugs to human beings and other animals achieved by mixing the active pharmaceutical compound with a basic salt as one of calcium, magnesium and aluminum in a solution or suspension of any kind, where the basic salt solution or suspension protects the pharmaceutical compound from

the adverse effects of gastric acid by neutralizing gastric acid. When calcium is used, it has the advantage of no obvious contraindications and is generally usable by all patients, especially those patients who have diseases in which sodium is contraindicated.

IT 113712-98-4, Tanatoprazole
 RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (as acid-labile drug; acid-labile drug formulations as basic salts with calcium, magnesium or aluminum)
 RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methylsulfanyl]- (9CI) (CA INDEX NAME)



L12 ANSWER 25 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 25 OF 64 CA COPYRIGHT 2005 ACS on STN
 141:116452 CA
 ACCESSION NUMBER:
 TITLE: Chemistry of Covalent Inhibition of the Gastric (H⁺, K⁺)-ATPase by Proton Pump Inhibitors
 AUTHOR(S): Shin, Jai Moo; Cho, Young Moon; Sachs, George
 CORPORATE SOURCE: Department of Physiology and Medicine, University of California, Los Angeles, CA, 90073, USA
 SOURCE: Journal of the American Chemical Society (2004), 126(25), 7800-7811
 CODEN: JACSAT; ISSN: 0002-7863
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 141:116452

AB Proton pump inhibitors (PPIs), drugs that are widely used for treatment of acid related diseases, are either substituted pyridylmethylsulfanyl benzimidazole or imidazopyridine derivs. They are all prodrugs that inhibit the acid-secreting gastric (H⁺, K⁺)-ATPase by acid activation to reactive thiophiles that form disulfide bonds with one or more cysteines accessible from the exoplasmic surface of the enzyme. This unique acid-catalysis mechanism had been ascribed to the nucleophilicity of the pyridine ring. However, the data obtained here show that their conversion to the reactive cationic thiophilic sulfenic acid or sulfenamide depends mainly not on pyridine protonation but on a second protonation of the imidazole component that increases the electrophilicity of the C-2 position on the imidazole. This protonation results in reaction of the C-2 with the unprotonated fraction of the pyridine ring to form the reactive derivs. The relevant PPI pKa's were determined by UV spectroscopy

of the benzimidazole or imidazopyridine sulfenylmethyl moieties at different medium pH. Synthesis of a relatively acid stable analog, N1-Me lansoprazole, allowed direct determination of both pKa values of this intact PPI

allowing calcul. of the two pKa values for all the PPIs. These values predict their relative acid stability and thus the rate of reaction with cysteines of the active proton pump at the pH of the secreting parietal cell. The PPI accumulates in the secretory canaliculus of the parietal cell due to pyridine protonation then binds to the pump and is activated by the second protonation on the surface of the protein to allow disulfide formation.

IT 721924-07-8P
 RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (chemical of covalent inhibition of gastric (H⁺, K⁺)-ATPase by proton

pump inhibitors)

RN 721924-07-8 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methylsulfanyl]-1-methyl- (9CI) (CA INDEX NAME)

L12 ANSWER 26 OF 64 CA COPYRIGHT 2005 ACS on STN
 141:71546 CA
 ACCESSION NUMBER:
 TITLE: Process for preparing optically pure 2-(2-pyridylmethylsulfanyl)-1H-benzimidazole and 2-(2-pyridylmethylsulfanyl)-1H-imidazo[4,5-b]pyridine as proton pump inhibitors (PPI)
 INVENTOR(S): Kohl, Bernhard; Mueller, Bernd; Weingart, Ralf Steffen
 PATENT ASSIGNER(S): Altana Pharma Ag, Germany
 SOURCE: PCT Int. Appl., 20 pp.
 CODEN: PIXK22
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052882	A1	20040624	WO 2003-EP13605	20031203
W: AE, AL, AU, BA, BR, CA, CN, CO, CZ, EC, EG, GE, HR, ID, IL, IN, IS, JP, KR, LT, LV, MA, MK, MX, NO, NZ, PH, PL, SG, TN, UA, US, VN, YU, ZA, ZW				
RW: AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				

PRIORITY APPLN. INFO.: EP 2002-27273 A 20021206
 DE 2003-10340255 A 20030829

AB Described is a process for preparing optically pure PPI having a sulfanyl structure in enantiomerically pure or enantiomerically enriched form by oxidation of the corresponding sulfides in the presence of a chiral zirconium

or hafnium complex. Thus, 20.2 g 5-difluoromethoxy-2-[(3,4-dimethoxy-2-pyridinyl)methylthio]-1H-benzimidazole together with 17.9 g di-Et (+)-tartrate, 13.4 g zirconium(IV) isopropoxide/isopropanol complex and 0.1 mL H₂O were suspended in 100 mL Me iso-Bu ketone and heated at 40° for one hour to give an almost clear solution. After cooling to room temperature, 4.1 mL N-ethyl-diisopropylamine was added, followed by

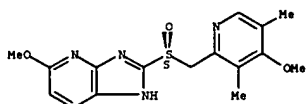
slowly metering 11 mL cumene hydroperoxide, and the mixture was stirred at room temperature until the oxidation process to give, after workup, (-)-pantoprazole as a beige powder of m.p. 145° (decomposition) and an optical purity of >95%. After recrystn. from isopropanol, a clear crystal of m.p. 147-149° (decomposition) with an optical rotation of a D₂₀ = -140° (c = 0.5, MeOH) was obtained.

IT 705968-86-1P, (S)-5-Methoxy-2-[(4-methoxy-3,5-dimethyl-2-pyridylmethylsulfanyl)-1H-imidazo[4,5-b]pyridine
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

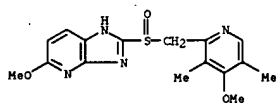
([preparing optically pure 2-(2-pyridylmethylsulfanyl)-1H-benzimidazole and -1H-imidazo[4,5-b]pyridine as proton pump inhibitors by oxidation of sulfides in the presence of a chiral zirconium or hafnium complex])

RN 705968-86-1 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[(S)-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methylsulfanyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



- L12 ANSWER 27 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)
contg. (-)-I and salts, particularly the Na, K, Li, Mg, and Ca salts, and the use of these compds. for treatment of a variety of specific conditions, or for inhibition of acid secretion. For instance, sepn. of 2 g (+)-I on a 265x110 mm ChiralPak column contg. an amylose tris(5)- α -methylbenzylcarbamate stationary phase at ambient temp. gave (-)-I. Pharmacokinetic studies in Caucasians show that a mutation of cytochrome 2C19 gives rise to fast and slow metabolizers of I, which leads to plasma accumulation of (+)-I in CYP2C19*2/*2-homozygous slow metabolizers, and a higher proportion of (-)-I in CYP2C19*1/*1-homozygous fast metabolizers. It appears that (+)-I is metabolized predominantly by CYP2C19, whereas (-)-I is metabolized by 2 routes, CYP2C19 and CYP3A4. Thus, therapy with (-)-I offers the advantages of reduced variability between patients, better utilization, longer mean residence time, and reduced potential for drug interaction by compensation for potential CYP2C19 blockage. (-)-I has a plasmatc half-life of 10-12 h at 20-80 mg doses, whereas (+)-I has a half-life of 7 h at 20 mg and 9 h at 80 mg.
- IT 113712-98-4, (+)-Tenatoprazole
RL: PEP (Physical, engineering or chemical process); PKT (Pharmacokinetics); PYP (Physical process); BIOL (Biological study); PROC (Process)
(chromatog. resolution; preparation of tenatoprazole enantiomer with improved pharmacokinetic behavior, for treatment of digestive disorders)
- RN 113712-98-4 CA
CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)

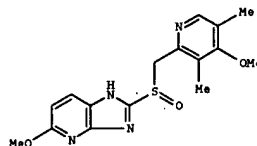


REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 141:54339 CA
TITLE: Tenatoprazole enantiomer with improved pharmacokinetic behavior, and its therapeutic application in the treatment of digestive pathologies
INVENTOR(S): Schutze, Francois; Charbit, Suzy; Fichaux, Hervé; Homerin, Michel; Taccoen, Alain; Cohen, Avraham
PATENT ASSIGNEE(S): Negma Gild, Fr.
SOURCE: Fr. Demande, 15 pp.
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2848555	A1	20040618	FR 2002-15949	20021216
WO 2004060891	A1	20040722	WO 2003-FR3746	20031216
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LX, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG			
US 2005119298	A1	20050602	US 2003-507485	20031216
PRIORITY APPLN. INFO.:			FR 2002-15949	A 20021216
			WO 2003-FR3746	W 20031216

GI

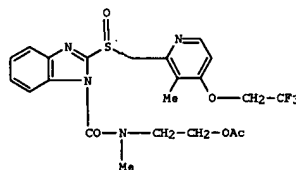


- AB The invention relates to the (-)-enantiomer of tenatoprazole, i.e., (-)-I, or (-)-5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]imidazo[4,5-b]pyridine. This enantiomer has improved pharmacokinetic properties relative to racemic I, allowing a posol. of only one dose of drug per day in indicated usages. (-)-I is applicable to treatment of digestive pathologies. Claims cover (-)-I and salts, preparation of (-)-I by chiral chromatog. of the racemate, compns.

ACCESSION NUMBER: 140:380603 CA
TITLE: Controlled release preparation containing proton pump inhibitors
INVENTOR(S): Akiyama, Yoshiko; Kurazawa, Takashi; Bando, Hiroto; Nagahara, Naoki
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 371 pp.
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

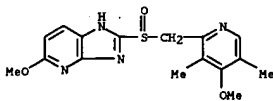
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004035020	A2	20040429	WO 2003-JP13155	20031015
WO 2004035020	A3	20040624		
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2499574	AA	20040429	CA 2003-2499574	20031015
JP 2004292427	A2	20041021	JP 2003-354900	20031015
EP 1553929	A2	20050720	EP 2003-754116	20031015
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRIORITY APPLN. INFO.:			JP 2002-301876	A 20021016
			JP 2003-66336	A 20030312
			WO 2003-JP13155	W 20031015

OTHER SOURCE(S): MARPAT 140:380603
GI



- AB A controlled release preparation wherein the release of active ingredient is controlled, which releases an active ingredient for an extended period of time by staying or slowly migrating in the gastrointestinal tract, is provided by means such as encapsulating a tablet, granule or fine granule

L12 ANSWER 28 OF 64 CA COPYRIGHT 2005 ACS ON STN (Continued)
 wherein the release of active ingredient is controlled and a gel-forming polymer. Said tablet, granule or fine granule has a release-controlled coating-layer formed on a core particle contg. an active ingredient. Many compds. such as I were prepd. and formulations given, e.g., granules contg. sucrose-starch spheres, R-lansoprazole, Mg carbonate, purified sucrose, corn starch, low-substituted hydroxypropyl cellulose, and hydroxypropyl cellulose.
 IT 113712-98-4F
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (controlled release preparation containing proton pump inhibitors)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



L12 ANSWER 29 OF 64 CA COPYRIGHT 2005 ACS ON STN (Continued)
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

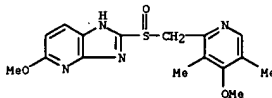
L12 ANSWER 29 OF 64 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 140:344896 CA
 TITLE: Pharmaceutical composition comprising tenatoprazole and an anti-inflammatory drug
 INVENTOR(S): Schutze, Francois; Charbit, Suzy; Ficheux, Hervé; Homerin, Michel; Taccoen, Alain; Inaba, Yoshio
 PATENT ASSIGNEE(S): Negma Gild, Fr.; Mitsubishi Pharma Corporation
 SOURCE: Fr. Demande, 15 pp.
 CODEN: FROXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2845917	A1	20040423	FR 2002-13115	20021021
CA 2503211	AA	20040506	CA 2003-2503211	20031021
WO 2004037254	A1	20040506	WO 2003-FR3120	20031021

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 EP 1553942 A1 20050720 EP 2003-778425 20031021
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 PRIORITY APPLN. INFO.: FR 2002-13115 A 20021021
 WO 2003-FR3120 W 20031021

AB A pharmaceutical composition comprises a combination of tenatoprazole and one or more NSAID and the inhibitors of cyclooxygenase-2 inhibitors for the treatment of the painful and inflammatory symptoms. A tablet contained tenatoprazole 20, diclofenac 100, and excipients q.s. 300 mg. Efficacy of the tablet in the treatment of patients with inflammation and pain is shown.

IT 113712-98-4, Tenatoprazole
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (pharmaceutical composition comprising tenatoprazole and anti-inflammatory drugs)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



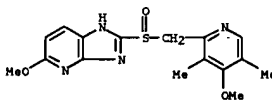
L12 ANSWER 30 OF 64 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 140:344895 CA
 TITLE: Pharmaceutical composition comprising tenatoprazole and an H2histamine receptor antagonist
 INVENTOR(S): Schutze, Francois; Charbit, Suzy; Ficheux, Hervé; Homerin, Michel; Taccoen, Alain; Inaba, Yoshio
 PATENT ASSIGNEE(S): Negma Gild, Fr.; Mitsubishi Pharma Corporation
 SOURCE: Fr. Demande, 13 pp.
 CODEN: FROXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2845916	A1	20040423	FR 2002-13114	20021021
CA 2503215	AA	20040506	CA 2003-2503215	20031021
WO 2004037256	A1	20040506	WO 2003-FR3124	20031021

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 EP 1553944 A1 20050720 EP 2003-778429 20031021
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 PRIORITY APPLN. INFO.: FR 2002-13114 A 20021021
 WO 2003-FR3124 W 20031021

AB A new pharmaceutical composition for the treatment of gastric hyperacidity comprises tenatoprazole and one or more antagonists of H2-histamine receptors such as cimetidine, ranitidine, famotidine, and nizatidine. The composition is used for the treatment of the gastric and duodenal ulcers, and the symptoms and lesions of the gastro-esophagus reflux. A tablet contained tenatoprazole 20, ranitidine 200, and excipients q.s. 300 mg. Efficacy of the tablet in the treatment of patients with gastro-esophagus reflux is shown.

IT 113712-98-4, Tenatoprazole
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (pharmaceutical composition comprising tenatoprazole and H2-histamine receptor antagonist)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



10/507,485

L12 ANSWER 30 OF 64 CA COPYRIGHT 2005 ACS on STM (Continued)
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

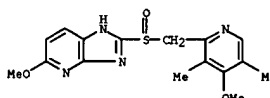
L12 ANSWER 31 OF 64 CA COPYRIGHT 2005 ACS on STM
 140:315073 CA
 ACCESSION NUMBER:
 TITLE: Use of tenatoprazole for the treatment of
 the gastroesophageal reflux
 INVENTOR(S): Schutze, Francois; Charbit, Suzy; Picheux, Herve;
 Homerin, Michel; Taccoen, Alain; Inaba, Yoshio
 PATENT ASSIGNEE(S): Nagma Gild, Fr.; Mitsubishi Pharma Corporation
 SOURCE: Fr. Demande, 21 pp.
 CODEN: FROKBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2845915	A1	20040423	FR 2002-13113	20021021
CA 2503212	AA	20040506	CA 2003-2503212	20031021
WO 2004037255	A1	20040506	WO 2003-FR3122	20031021
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RV: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1553943	A1	20050720	EP 2003-778427	20031021
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRIORITY APPLN. INFO.:			FR 2002-13113	A 20021021
			WO 2003-FR3122	W 20031021

AB The invention relates to a new therapeutic indication of tenatoprazole. Tenatoprazole, like its salts, can be used in the manufacture of a drug for the treatment of the atypical symptoms of gastroesophageal reflux, Gastrointestinal bleedings, and dyspepsias.

IT 113712-98-4, Tenatoprazole
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (use of tenatoprazole for treatment of gastroesophageal reflux)

RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methylsulfanyl]- (9CI) (CA INDEX NAME)

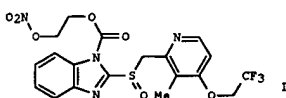
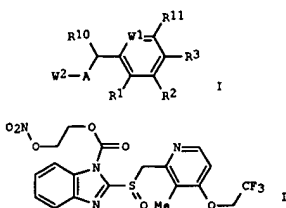


L12 ANSWER 31 OF 64 CA COPYRIGHT 2005 ACS on STM (Continued)
 REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 32 OF 64 CA COPYRIGHT 2005 ACS on STM
 140:163865 CA
 ACCESSION NUMBER:
 TITLE: Preparation of nitrosated
 (pyridylmethylsulfanyl)benzimidazolecarboxylate
 derivatives as proton pump inhibitors
 INVENTOR(S): Fang, Xinqin; Garvey, David S.; Letts, L. Gordon
 PATENT ASSIGNEE(S): NitroMed, Inc., USA
 SOURCE: U.S. Pat. Appl. Publ., 47 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004024014	A1	20040205	US 2003-631782	20030801
CA 2493619	AA	20040212	CA 2003-2493618	20030801
WO 2004012659	A2	20040212	WO 2003-US23963	20030801
WO 2004012659	A3	20041007		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1534278	A2	20050601	EP 2003-767016	20030801
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRIORITY APPLN. INFO.:			US 2002-39715F	P 20020801
			WO 2003-US23963	W 20030801

OTHER SOURCE(S): MARPAT 140:163865
 GI



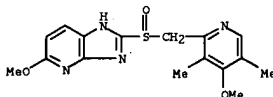
AB Title compds. I (12 addnl. Markush structures), [wherein R1 = H, alkoxy, alkyl, alkylthio; R2 = H, halogen, (halo)alkoxy, (alkoxy)alkyl, alkylthio,

L12 ANSWER 32 OF 64 CA COPYRIGHT 2005 ACS ON STN (Continued)
 amino, or R2 and R3 taken together with the carbon atoms to which they are attached form a cycloalkyl ring, aryl, or heterocyclic ring; R3, R11 = independently H, alkoxy, alkyl, alkythio, or R3 and R11 taken together with the carbon chain to which they are attached form cycloalkyl ring, aryl, or heterocyclic ring; R10 = H or R10 and R1 taken together with the carbon chain to which they are attached form cycloalkyl ring; A = SO_n, n = 0-2; W1 = CH, N, amino-substituted carbon; W2 = (un)substituted (aza)benzimidazole, 1-phenylimidazolyl, 1-(2-pyridinyl)imidazolyl, thienof[3,4-d]imidazolyl, and pharmaceutically acceptable salts thereof], were prepd. as proton pump inhibitors. For example, reaction of lansoprazole with 2-(nitroxy)ethyl chloroformate in the presence of NaH in THF at 0 °C gave II in 62%. Thus, I and their pharmaceutical compns. are useful as proton pump inhibitors, that donate, transfer or release nitric oxide, stimulate endogenous synthesis of nitric oxide, elevate endogenous levels of endothelium-derived relaxing factor or are the substrate for nitric oxide synthase. The invention also also provide for novel kits comprising at least one nitrosated proton pump inhibitor compd., and, optionally, at least one nitric oxide donor and/or at least one therapeutic agent. Furthermore, I and their pharmaceutical compns. are also useful for the treatment of gastrointestinal disorders; facilitating ulcer healing; decreasing the recurrence of ulcers; improving gastroprotective properties, anti-Helicobacter pylori properties or anticid properties of proton pump inhibitors; decreasing or reducing the gastrointestinal toxicity assocd. with the use of nonsteroidal antiinflammatory compds.; and treating bacterial infections and/or viral infections (no data).

IT 113712-98-ADP, Tenatoprazole, nitrosated derivs.
 RL PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of nitrosated (pyridyl)methylsulfinyl)benzimidazolecarboxylate derivs. as proton pump inhibitors)

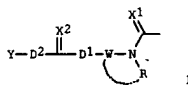
RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



L12 ANSWER 33 OF 64 CA COPYRIGHT 2005 ACS ON STN
 140:42180 CA
 TITLE: Preparation of nitrogenous heterocycle prodrugs having N-(2-acyloxyethyl)-N-methylcarbamoyl groups
 INVENTOR(S): Kamiyama, Keiji; Banno, Hiroshi; Sato, Fumihiko; Hasuoka, Atsushi
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 75 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003106429	A1	20031224	WO 2003-JP7545	20030613
W:	AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GR, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2489470	AA	20031224	CA 2003-2489470	20030613
JP 2004307457	A2	20041104	JP 2003-169308	20030613
EP 1514870	A1	20050316	EP 2003-733425	20030613
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRIORITY APPL. INFO.:			JP 2002-175086	A 20020614
			JP 2003-41085	A 20030219
			WO 2003-JP7545	W 20030613

OTHER SOURCE(S): MARPAT 140:42180
 GI

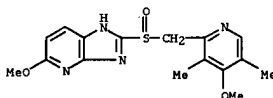


AB Disclosed is a compound having a group represented by the formula (I) [X1, X2 = O, S; W = (un)substituted bivalent hydrocarbon chain, -W1-Z-W2-; wherein W1, W2 = bivalent hydrocarbon chain, a bond; Z = (un)substituted bivalent hydrocarbon ring or heterocyclic ring, O, S, SO, SO2, (un)substituted NH; provided that when Z = O, S, SO, SO2, or (un)substituted NH, then W1, W2 = bivalent hydrocarbon chain; R = H, (un)substituted hydrocarbon group or heterocyclic ring; or R is not H, R may be linked to W, D1, D2 = a bond, O, S, (un)substituted NH; Y = (un)substituted hydrocarbonyl or heterocyclyl] as a modifying group to be

L12 ANSWER 33 OF 64 CA COPYRIGHT 2005 ACS ON STN (Continued)
 eliminated from a prodrug. It enables prodrug development based on the modification of a nitrogenous heterocycle, etc., with N-(2-acyloxyethyl)-N-methylcarbamoyl groups. For example, 3'-azido-3'-deoxythymidine (zidovudine), N-cyano-N'-methyl-N'-[2-((4-methyl-5-imidazolyl)-methylthio)ethyl]guanidine (cimetidine), (R)-2-[[[3-methyl-4-(2,2,2-trifluoroethoxy)-2-pyridyl]methyl]sulfinyl]-1H-benzimidazole [(R)-(+)-lansoprazole], 2-[[[(3,5-dimethyl-4-methoxy-2-pyridyl)methyl]sulfinyl]-5-methoxy-1H-benzimidazole (omeprazole), 2-[[[(4-(3-methoxypropoxy)-3-methyl-2-pyridyl)methyl]sulfinyl]benzimidazole (rabeprazole), 5-(difluoromethoxy)-2-[[[(3,4-dimethoxy-2-pyridyl)methyl]sulfinyl]-1H-benzimidazole (pantoprazole), or 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-1H-imidazo[4,5-b]pyridine (tenatoprazole) were modified by one of CONMeCH2CH2OCO2Et, CONMeCH2CH2OAc, and CONMeCH2CH2OCO2-(tetrahydropyranyl-4-yl) groups.

IT 113712-98-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of nitrogenous heterocycle prodrugs having N-(acyloxyethyl)-N-methylcarbamoyl groups)

RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)

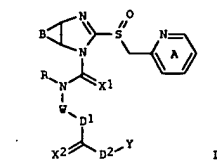


REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 34 OF 64 CA COPYRIGHT 2005 ACS ON STN
 140:42178 CA
 TITLE: Preparation of prodrugs of benzimidazoles and analogs as proton pump inhibitors for the treatment of peptic ulcers
 INVENTOR(S): Kamiyama, Keiji; Banno, Hiroshi; Sato, Fumihiko
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 216 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003105845	A1	20031224	WO 2003-JP7546	20030613
W:	AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GR, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2489361	AA	20031224	CA 2003-2489361	20030613
JP 2004307457	A2	20041104	JP 2003-169308	20030613
EP 1513527	A1	20050316	EP 2003-733426	20030613
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRIORITY APPL. INFO.:			BR 2003-11801	20030613
			JP 2002-175086	A 20020614
			JP 2003-41085	A 20030219
			WO 2003-JP7546	W 20030613

OTHER SOURCE(S): MARPAT 140:42178
 GI



II

AB Title compds. I [wherein A = (un)substituted pyridine ring; B = (un)substituted benzene or monocyclic aromatic heterocycle; X1 and X2 = O or S; W = W1W2; W1 and W2 = independently divalent hydrocarbon chain or a bond; Z = (un)substituted divalent heterocyclic ring, divalent heterocyclic ring, O, SO₂-2, or NE; E = H, alkanoyl, (ar)alkoxycarbonyl, thiocarbonyl, alkylsulfinyl, alkylsulfonyl, (alkyl)sulfonyl, arylsulfonyl, arylsulfinyl, arylsulfonyl, arylcarbonyl, or (un)substituted hydrocarbon, heterocyclyl, or carbamoyl; R = (un)substituted hydrocarbon or heterocyclyl; R and W may be bonded to each other; D1 and D2 = independently a bond, O, S, or NR1; R1 = H or (un)substituted hydrocarbon; Y = (un)substituted hydrocarbon or heterocyclyl; with provisos; and salts thereof] were prepared. For example, reaction of bis(trichloromethyl)carbonate with 2-(methylamino)ethyl acetate-HCl in the presence of pyridine in THF, followed by coupling with (R)-2-[[[3-methyl-4-(2,2,2-trifluoroethoxy)-2-pyridyl]methyl]sulfinyl]-1H-benzimidazole using a catalytic amount of 4-dimethylaminopyridine and TEA in THF, gave II. Compds. of the invention are proton pump inhibitors, which show superior antiulcer activity, gastric acid secretion inhibitory action, mucosa-protecting action, and anti-Helicobacter pylori action (no data).

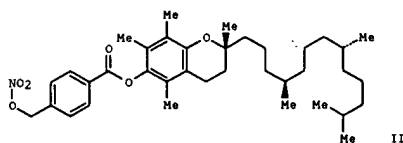
IT 113712-98-4, 5-Methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridyl)methyl]sulfinyl]-1H-imidazo[4,5-b]pyridine
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of prodrugs containing benzimidazoles and analogs as proton

pump inhibitors for treatment of peptic ulcers)
 RN 113712-98-4 CA

CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridyl)methyl]sulfinyl]- (SCI) (CA INDEX NAME)

ACCESSION NUMBER: 139:214237 CA
 TITLE: Preparation of nitrate prodrugs able to release nitric oxide in a controlled and selective way and their use for prevention and treatment of inflammatory, ischemic and proliferative diseases
 INVENTOR(S): Scaramuzzino, Giovanni
 PATENT ASSIGNEE(S): Italy
 SOURCE: Eur. Pat. Appl., 313 pp.
 CODEN: EPFXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

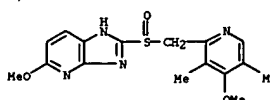
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1336602	A1	20030820	EP 2002-425075	20020213
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			EP 2002-425075	20020213



II

AB New pharmaceutical compds. of general formula F-(X)q (I) [q = 1-5, preferably 1; F is chosen among drugs such as α-tocopherol, clidanan, diethylhomospermine, glucosamine, thymocartin, vofopitant, etc.; X is chosen among 4 groups M, T, V, and Y where M = ONO₂, nitrate salt, nitrite ester, ONO, thionitrite, SNO, etc.; T = OR1-M, OR1OR1-M, SR1NR2R1-M, NR2R1-M, NR2R1SR1-M, etc.; R1 = saturated or unsatd., linear or branched alkylene, having 1 to 21 carbon atoms or a saturated or unsatd., optionally heterosubstituted or branched cycloalkylene, having 3 to 7 carbon atoms or an optionally heterosubstituted arylene having 3 to 7 carbon atoms; R2 = H, saturated or unsatd., linear or branched 1-21 carbon atom alkyl, saturated or unsatd., optionally heterosubstituted or branched

3-7 carbon cycloalkyl, optionally heterosubstituted 3-7 carbon aryl; R1, R2 = OH, SH, F, Cl, Br, OPO₃H₂, CO₂H, etc.; bond between F and T = carboxylic ester, carboxylic amide, glycoside, azo, thioester, sulfonic ester, etc.; V = 2-M₂, OZ-M₂, NR₂Z-M₂, R1Z-M₂, OR1Z-M₂, M₂ = M, R1-M, OR1-M, SR1-M, NR2R1-M; ZM₂ = COCH₂CH₂(M)CH₂NHMe₃, COCH₂CH₂COM₂, COCH(NHR₂)CH₂M₂, etc.; Y = 4-COC₆H₄CH₂ONO₂, O(CH₂)₄ONO₂, COCH(NH₂)CH₂ONO₂, 3-OC₆H₄CH₂ONO₂, etc.] were prepared. For example, α-tocopherol reacted with 4-HO₂COC₆H₄CH₂ONO₂ to give the nitroxymethyl derivative II. The compds. of general formula I are nitrate prodrugs which can release nitric oxide in vivo in a controlled and selective way and without hypotensive side effects and for this reason they are useful for the preparation of medicines for prevention and treatment of inflammatory, ischemic, degenerative and

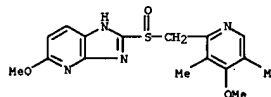


REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

proliferative diseases of musculoskeletal, tegumental, respiratory, gastrointestinal, genito-urinary and central nervous systems.
 IT 586349-19-1P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of nitrate prodrugs for treating or preventing inflammatory, ischemic, degenerative, and proliferative diseases)
 RN 586349-19-1 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridyl)methyl]sulfinyl]-, mononitrate (SCI) (CA INDEX NAME)

CH 1

CRN 113712-98-4
 CHF C16 H18 N4 O3 S



CH 2

CRN 7697-37-2
 CHF H N O3



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

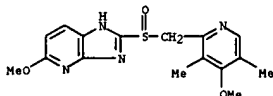
10/507,485

L12 ANSWER 36 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 138:326593 CA
 TITLE: Granules containing acid-unstable chemicals in large amount
 INVENTOR(S): Shimizu, Toshihiro; Nakano, Yoshinori
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 46 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003032953	A1	20030424	WO 2002-JP10720	20021016
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, T2, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2463690	AA	20030424	CA 2002-2463690	20021016
JP 2003192579	A2	20030709	JP 2002-301866	20021016
EP 1459737	A1	20040922	EP 2002-775359	20021016
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 2005003005	A1	20050106	US 2004-492690	20040415
PRIORITY APPLN. INFO.: JP 2001-319444 A 20011017 WO 2002-JP10720 W 20021016				

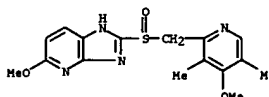
OTHER SOURCE(S): MARPAT 138:326593
 AB It is intended to provide preps. such as capsules containing acid-unstable chemical (in particular, a benzimidazole compound having an antilulcer effect, etc.) at a high concentration which are prepared by using about 12 % by weight or more (based on the total granules) of the acid-unstable chemical and blending a basic inorg. salt therewith to give granules of about 600 µm or more in the average grain size. Granules were prepared containing lansoprazole 30, sucrose/starch spherical particles 50, MgCO₃ 10, sucrose 30, starch 14, low-substituted hydroxypropyl cellulose 15, and hydroxypropyl cellulose 1 part. The granules were filled into capsules, which were then coated with enteric-soluble polymethacrylate compns.
 IT 113712-98-4, TU 199
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (granules containing acid-unstable compds. and inorg. salts)
 RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)

L12 ANSWER 37 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 138:296876 CA
 TITLE: Tenatoprazole: benatoprazole, TU 199
 AUTHOR(S): Anon.
 CORPORATE SOURCE: N. Z.
 SOURCE: Drugs in R&D (2002), 3(4), 276-277
 CODEN: DRDPD; ISSN: 1174-5886
 PUBLISHER: Adis International Ltd.
 DOCUMENT TYPE: Journal: General Review
 LANGUAGE: English
 AB A review. Benatoprazole [TU 199; tenatoprazole] is an imidazopyridine derivative and a proton pump inhibitor. It is under development with Mitsubishi Pharma Corporation (Mitsubishi Chemical) and Hokuriku Seiyaku (BASF Pharma, now Abbott Labs.) in Japan as an oral antilulcer agent and for the treatment of reflux esophagitis and Zollinger-Ellison syndrome. An application for approval of benatoprazole (formerly tenatoprazole) has been registered in Japan. The pharmacodynamics and application in therapy for peptic ulcer disease are discussed.
 IT 113712-98-4, Tenatoprazole
 RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmacodynamics and antilulcer application of proton pump inhibitor tenatoprazole (benatoprazole, TU 199))
 RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 36 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

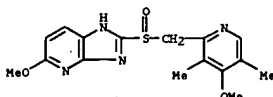
L12 ANSWER 38 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 138:260440 CA
 TITLE: Self emulsifying drug delivery system containing NSAIDs
 INVENTOR(S): Holmberg, Christina
 PATENT ASSIGNEE(S): AstraZeneca AB, Swed.
 SOURCE: PCT Int. Appl., 49 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003022249	A1	20030320	WO 2002-SE1598	20020905
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, T2, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1427392	A1	20040616	EP 2002-765747	20020905
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2005504788	T2	20050217	JP 2003-526379	20020905
US 2004248974	A1	20041209	US 2004-488585	20040304
PRIORITY APPLN. INFO.: SE 2001-2993 A 20010907 WO 2002-SE1598 W 20020905				

OTHER SOURCE(S): MARPAT 138:260440
 AB A pharmaceutical composition suitable for oral administration, in form of an emulsion pre-concentrate, comprises 1 or more NO-releasing NSAID(s), 1 or more surfactants, of which at least one is phospholipid, the composition forming an in-situ oil-in-water emulsion upon contact with gastrointestinal fluids. The composition may optionally also comprise an addnl. oil or semi-solid fat. Further, 1 or more short-chain alcs. can optionally be included in the composition. Also within the scope of the invention is a combination with a proton pump inhibitor. The pharmaceutical composition is useful in the treatment of pain and inflammation. Further within the scope of the invention is kit comprising a pharmaceutical composition according to the invention in a unit dosage form, in combination with a proton pump inhibitor, and the proton pump inhibitor is enteric coated. Thus, a formulation contained Lipoid S100 0.30, propylene glycol 0.90, and a NO-releasing NSAID 4.00 g.
 IT 113712-98-4
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (self emulsifying drug delivery system containing NSAIDs)
 RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)

10/507,485

L12 ANSWER 39 OF 64 CA COPYRIGHT 2005 ACS ON STN (Continued)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 39 OF 64 CA COPYRIGHT 2005 ACS ON STN

ACCESSION NUMBER: 135:314438 CA

TITLE: Proteolipid subunits of vacuolar H⁺-ATPase (ATP6F) as tumor antigens, application to cancer therapy, and use of proton pump inhibitor as anticancer agent
 INVENTOR(S): Sato, Nobuo; Suzuki, Nobutaka; Yamaguchi, Masaaki; Yamaguchi, Nobuo; Okuma, Katsuji

PATENT ASSIGNEE(S): Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 79 pp.

CODEN: JXOXAF

DOCUMENT TYPE: Patent

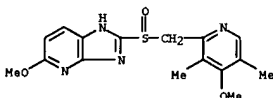
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001286284	AZ	20011016	JP 2000-103966	20000405
PRIORITY APPLN. INFO.:			JP 2000-103966	20000405
AB				
Proteolipid subunits of vacuolar H ⁺ -ATPase (V-ATPase) as tumor antigens, use of antibodies and antisense oligonucleotides targeting those antigens as anticancer agent, and use of proton pump inhibitor as anticancer agent, are disclosed. Tumor antigen recognized by monoclonal antibody KCT-1 was isolated from thyroid cancer cell line TPC-1. The amino acid sequence of this antigen named SSY (S-1) was found match that of vacuolar H ⁺ -ATPase proteolipid subunit (ATP6F, c' subunit). The epitope of SSY antigen for KCT-1 antibody was determined. SSY antigen was found to strongly expressed in all the cancers examined: thyroid cancer, breast cancer, stomach cancer, esophagus cancer (squamous cell carcinoma), laryngeal cancer, colon cancer, rectal cancer, anal cancer, pancreatic cancer, lung cancer, renal cancer, bladder cancer, ovarian cancer, uterus cancer, cervical cancer, cunnus cancer, skin cancer, melanoma, central or peripheral nervous system cancer, gingival cancer, pharyngeal carcinoma, mediastinal tumor, liver cancer, bile duct cancer (cholangioloma), gallbladder cancer, renal pelvis tumor, ureter cancer, testicular cancer, fallopian tube cancer, vaginal cancer, sarcoma, leukemia, erythroleukemia, multiple myeloma, malignant lymphoma, and carcinosarcoma. CDNA for a mouse homolog was cloned. Intradermal, s.c., and oral administration of the antigen in mouse demonstrated antitumor activity and safety. Antitumor activity was also demonstrated by phosphorothioate antisense oligonucleotide. Various inhibitors of V-ATPase, H ⁺ /K ⁺ -ATPase, and H ⁺ /Cl ⁻ symporter were found to have antitumor activity.				
IT				
113712-98-4 TU-199 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (proteolipid subunits of vacuolar H ⁺ -ATPase (ATP6F) as tumor antigens, application to cancer therapy, and use of proton pump inhibitor as anticancer agent)				
RN				
CN				
113712-98-4 CA 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (SC1) (CA INDEX NAME)				

L12 ANSWER 39 OF 64 CA COPYRIGHT 2005 ACS ON STN (Continued)



L12 ANSWER 40 OF 64 CA COPYRIGHT 2005 ACS ON STN

ACCESSION NUMBER: 135:231708 CA

TITLE: New self emulsifying drug delivery system
 INVENTOR(S): Holmberg, Christina; Siekmann, Britta

PATENT ASSIGNEE(S): AstraZeneca AB, Swed.

SOURCE: PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

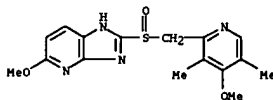
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001066088	A1	20010913	WO 2001-58467	20010306
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GN, GW, HL, HR, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
CA 2401498	AA	20010913	CA 2001-2401498	20010306
EP 1267832	A1	20030102	EP 2001-910305	20010306
EP 1267832	B1	20040602		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001009014	A	20030603	BR 2001-9014	20010306
JP 2003525894	T2	20030902	JP 2001-564741	20010306
EE 200200500	A	20040216	EE 2002-500	20010306
AT 268162	E	20040615	AT 2001-910305	20010306
NZ 521009	A	20040625	NZ 2001-521009	20010306
PT 1267832	T	20040930	PT 2001-910305	20010306
ES 2220728	T3	20041216	ES 2001-1910305	20010306
ZA 2002006740	A	20031124	ZA 2002-6740	20020822
US 2003161846	A1	20030828	US 2002-220791	20020905
NO 2002004272	A	20021105	NO 2002-4272	20020906
HK 1050632	A1	20050318	HK 2003-102781	20030416
PRIORITY APPLN. INFO.:			SE 2000-773	A 20000308
			WO 2001-58467	W 20010306
OTHER SOURCE(S):			MARPAT 135:231708	
AB				
The present invention claims and discloses a pharmaceutical composition suitable for oral administration, in form of an emulsion pre-concentrate, comprising: 1 or more NO-releasing NSAID(s), 1 or more surfactants, optionally an addnl. oil or semi-solid fat. The composition forms an in-situ oil-in-water emulsion upon contact with gastrointestinal fluids. The composition may optionally also comprise 1 or more short-chain alcohols. Also within the scope of the invention is a combination with a proton pump inhibitor. The pharmaceutical composition is useful in the treatment of pain and inflammation. Further within the scope of the invention is kit comprising a pharmaceutical composition according to the invention in a unit dosage form, in combination with a proton pump inhibitor, and the proton pump inhibitor is enteric coated. Thus, a semisolid formulation contained a NO-releasing NSAID 750, Pluronic F127 450, and omeprazole 20 g.				
IT				
113712-98-4 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (self emulsifying drug delivery system)				

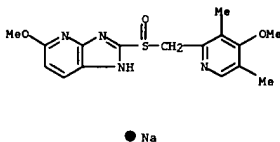
10/507,485

L12 ANSWER 40 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 41 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)
 study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (liq. formulations of substituted benzimidazoles as proton pump inhibitors for treatment of gastrointestinal diseases)
 RN 335299-59-7 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-, sodium salt (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 41 OF 64 CA COPYRIGHT 2005 ACS on STN
 134:316135 CA
 ACCESSION NUMBER:
 TITLE: Formulation of substituted benzimidazoles
 INVENTOR(S): Bruells, Mikael
 PATENT ASSIGNEE(S): AstraZeneca Ab, Swed.
 SOURCE: PCT Int. Appl., 26 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001028558	A1	20010426	WO 2000-SE1992	20001013
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2425199	AA	20010426	CA 2000-2425199	20001013
BR 2000014895	A	20020618	BR 2000-14895	20001013
TR 200201103	T2	20020821	TR 2002-200201103	20001013
EP 1274427	A1	20030115	EP 2000-973295	20001013
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003512327	T2	20030402	JP 2001-531388	20001013
EE 200200204	A	20030415	EE 2002-204	20001013
NZ 518155	A	20040730	NZ 2000-518155	20001013
US 6730685	B1	20040504	US 2000-701714	20001201
BG 106602	A	20021229	BG 2002-106602	20020410
ZA 2002002905	A	20030714	ZA 2002-2905	20020412
NO 2002001860	A	20020521	NO 2002-1860	20020419
PRIORITY APPLN. INFO.:			SE 1999-3831	A 19991022
			WO 2000-SE1992	W 20001013

OTHER SOURCE(S): MARPAT 134:316135
 AB The present invention relates to stable liquid formulations that comprise a water free or almost water free, polyethylene glycol solution of sodium or potassium salt of substituted benzimidazoles or their enantiomers as H₂K⁺-ATPase inhibitors. Alternatively, the sodium or potassium salt of the H₂K⁺-ATPase inhibitor may be formed in situ in the polyethylene glycol solution by adding sodium or potassium hydroxide together with the active compound. The invention is also directed to the preparation of the claimed formulation, use of the stable liquid formulations in medicine and in the treatment of gastrointestinal diseases. For example, omeprazole sodium was formulated in a liquid formulation containing PEG 400. The solution was not sensitive to oxygen in the head space nor to a small water content. The high solubility of omeprazole sodium in PEG is favorable regarding the formulation aspects of a parenteral pharmaceutical product.

IT 335299-59-7
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological

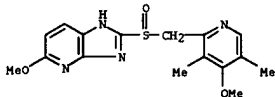
L12 ANSWER 42 OF 64 CA COPYRIGHT 2005 ACS on STN
 133:203023 CA
 ACCESSION NUMBER:
 TITLE: Nitrosated and nitrosylated proton pump inhibitors, compositions and methods of use
 INVENTOR(S): Garvey, David S.; Letts, L. Gordon; Tam, Sang William; Wang, Tiansheng; Richardson, Stewart K.
 PATENT ASSIGNEE(S): NitroMed, Inc., USA
 SOURCE: PCT Int. Appl., 100 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000050037	A1	20000831	WO 2000-US2524	20000225
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2362930	AA	20000831	CA 2000-2362930	20000225
EP 1154771	A1	20011121	EP 2000-910039	20000225
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002537336	T2	20021105	JP 2000-600648	20000225
US 6852739	B1	20050208	US 2000-512829	20000225
AU 781133	B2	20050505	AU 2000-32196	20000225
AU 2000032196	A5	20000914		
US 2004266828	A1	20041230	US 2004-866303	20040614
PRIORITY APPLN. INFO.:			US 1999-122111P	P 19990226
			US 2000-512829	A3 20000225
			WO 2000-US2524	W 20000225

OTHER SOURCE(S): MARPAT 133:203023
 AB The invention describes nitrosated and/or nitrosylated proton pump inhibitor compds., as well as compns. comprising 21 proton pump inhibitor compound that is optionally substituted with 21 NO and/or NO2 group, and, optionally, 21 compound that donates, transfers or releases nitric oxide, stimulates endogenous synthesis of nitric oxide, elevates endogenous levels of endothelium-derived relaxing factor, or is a substrate for nitric oxide synthase, and/or 21 nonsteroidal antiinflammatory drug, selective COX-2 inhibitor antacid, bismuth-containing reagent, acid-degradable antibacterial compound, and mixts. thereof. The invention also provides methods for treating and/or preventing gastrointestinal disorders; facilitating ulcer healing; decreasing the recurrence of ulcers; improving gastroprotective properties; anti-Helicobacter pylori properties or antacid properties of proton pump inhibitors; decreasing or reducing the gastrointestinal toxicity associated with the use of nonsteroidal antiinflammatory compds.; and treating Helicobacter pylori and viral infections. The compds. and/or compns. of the present invention can also be provided in the form of a pharmaceutical kit. Preparation of e.g. nitrosylated lansoprazole is described. Compared to lansoprazole, the nitrosylated lansoprazole significantly inhibited the formation of HCl/HCl-induced gastric lesions.

IT 113712-98-4D, Tenatoprazole, nitrosated and nitrosylated

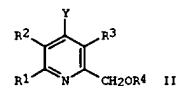
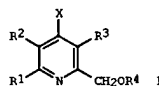
L12 ANSWER 42 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)
 derivs.
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (nitrosated and nitrosylated proton pump inhibitors, compns., combinations, and methods of use)
 RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

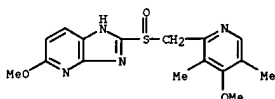
L12 ANSWER 43 OF 64 CA COPYRIGHT 2005 ACS on STN
 132:64176 CA
 ACCESSION NUMBER:
 TITLE: Preparation of 2-hydroxymethylpyridine metal complexes as intermediates for pyridinebenzimidazoles.
 INVENTOR(S): Nikolopoulos, Angelo; Schickaneder, Helmut; Kocher, Christian; Murphy, Trevor; Hermann, Gesine
 PATENT ASSIGNER(S): Russinsky Limited, Ire.
 SOURCE: PCT Int. Appl., 34 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000000474	A1	20000106	WO 1999-1E55	19990618
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, DM, DK, EE, ES, FI, GB, GD, GE, GR, GU, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LA, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SI, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9943877	A1	20000117	AU 1999-43877	19990618
PRIORITY APPL. INFO.:			IE 1998-514	A 19980626
			WO 1999-1E55	W 19990618
OTHER SOURCE(S):			CASREACT 132:64176; MARPAT 132:64176	
GI				



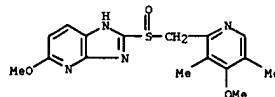
AB 1HmzAl(OR5)mSn [R1-R3 = H, alkyl, CF3, CHF2, CH2F, alkoxy, alkoxyalkoxy, OCH2CF3; R4 = H, alkyl, PhCH2, Aco, PhCH2O, trialkylsilyl, neg. charge; R5 = alkyl, aryl, CH2CF3, CF3, CHF2, alkoxyalkoxy; X = halo, NO2, SO3, OH; M = alkaline earth metal, third main group element, transition metal; S = solvents]
 k = 1-4; l = 1-3; m = 0-3; n ≥ 0; z = 1+m with a proviso] and 1Hmz(OR5)mSn [Y = alkoxy, aryloxy, OCH2CF3, alkoxyalkoxy, alkylthio, alkylthioalkylthio; z = m; other variables as above], were prepared. Thus, 4-nitro-2,3,5-trimethylpyridine N-oxide was heated in HOAc/Ac2O at 20-100° for 1 h to give 88% 2-acetoxymethyl derivative, which was stirred at 10-30° with NaOH in EtOH for 1 h to give 84% 3,5-dimethyl-2-hydroxymethyl-4-nitropyridine (II). II in MeOH was treated with ZnCl2 and with NaOMe in MeOH to give 100% Zn(II)ClOMe.
 IT 113712-98-4P, TU-199
 RL: PNU (Preparation, unclassified); PREP (Preparation)
 (preparation of 2-hydroxymethylpyridine metal complexes as intermediates for

L12 ANSWER 43 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)
 pyridinebenzimidazoles)
 RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 44 OF 64 CA COPYRIGHT 2005 ACS on STN
 131:208915 CA
 ACCESSION NUMBER:
 TITLE: General pharmacological properties of the new proton pump inhibitor (±)-5-methoxy-2-[[[(4-methoxy-3,5-dimethylpyrid-2-yl)methyl]sulfinyl]-1H-imidazo[4,5-b]pyridine
 AUTHOR(S): Kakinoki, Bunpei; Ono, Chizuko; Yamazaki, Noriyuki; Chikamatsu, Noriko; Wakatsuki, Daisuke; Uchiyama, Kazuyuki; Morinaka, Yasuhiro
 CORPORATE SOURCE: Medicinal Research Group II, Kazusa Research Laboratories, Tokyo Tanabe Co., Ltd., Kisarazu, Japan
 SOURCE: Methods and Findings in Experimental and Clinical Pharmacology (1999), 21(3), 179-187
 CODEN: MFEPDX; ISSN: 0379-0355
 PUBLISHER: Prous Science
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The general pharmacol. profiles of the title compound TU-199 on the central nervous system, cardiorespiratory system, autonomic nervous system, gastrointestinal system and renal functions were investigated. TU-199 had no effects on general signs and behavior in mice. TU-199 (300 mg/kg p.o.) decreased locomotor activity 3 h after administration in mice. TU-199 had no effect on pentobarbital-induced hypnosis, analgesic activity and electroshock-induced convulsion in mice, and on rectal temperature in rats. However, TU-199 (300 mg/kg p.o.) showed slight anticonvulsant activity on pentylenetetrazole-induced convulsion in mice. TU-199 had no effect on respiratory rate, blood pressure, heart rate, femoral blood flow and ECG in anesthetized dogs. TU-199 (10-4 M) caused the cumulative concentration-response curve obtained with acetylcholine in isolated guinea pig ileum to shift to the right. However, TU-199 showed no effect on contraction of isolated guinea pig ileum and had no effect on intestinal motility in mice, gastric emptying in rats, bile secretion in rats and carbachol-induced salivary secretion in mice. TU-199 had no effect on urinary volume and excretion of electrolytes in rats. These results suggest that TU-199 does not induce serious adverse effects on the central nervous system, cardiorespiratory system, autonomic nervous system, gastrointestinal system and renal functions with the exception of a decrease in spontaneous motor activity with high doses.
 IT 113712-98-4, TU-199
 RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (pharmacol. properties of proton pump inhibitor TU-199)
 RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/507,485

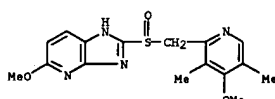
L12 ANSWER 45 OF 64 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 131:184948 CA
 TITLE: Preparation of benzimidazolylsulfonylethylarylamines as (H⁺/K⁺) ATPase inhibitors useful as antiviral agents.
 INVENTOR(S): Moormann, Alan E.; Becker, Daniel P.; Flynn, Daniel L.; Li, Rui; Villamil, Clara I.
 PATENT ASSIGNER(S): G.D. Searle and Co., USA
 SOURCE: U.S., 54 pp., Cont.-in-part of Ser. No. US 1994-00000000
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5945425	A	19990831	US 1996-737251	19961024
WO 9529897	A1	19951109	WO 1995-US5021	19950501
W:	AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT			
RW:	KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
US 2001047038	A1	20011129	US 2001-885221	20010620
US 6906076	B2	20050614		
PRIORITY APPLM. INFO.:			US 1994-235619	B2 19940429
			WO 1995-US5021	W 19950501
			US 1996-659098	B1 19960604
			US 1999-377888	B1 19990819
			US 2000-605560	B1 20000627

OTHER SOURCE(S): MARPAT 131:184948
 AB A method of treating viral infection comprises treatment with R2(CR3R4)pSOM(CR4R5)nR1 [R1 = (substituted) alkoxy, alkoxyalkyl, dialkylamino, aryl, heteroaryl; R2 = (substituted) heteroaryl; R3-R6 = H, alkyl, aryl, aralkyl; R3R4, R5R6 = cycloalkyl; a, n, p = 0-2]. Thus, 2-mercaptobenzimidazole and 2-aminobenzyl alc. were heated in HOAc/H2SO4 to give 2-[(1H-benzimidazol-2-yl)thiomethyl]benzenesamine. The latter in CHCl3 was treated with 2-[(1H-benzimidazol-2-yl)sulfinylethyl]benzenesamine. Title compds. inhibited HCMV replication with EC50 = 13-61 µM.
 IT 124899-76-9
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (preparation of benzimidazolylsulfonylethylarylamines as (H⁺/K⁺) ATPase inhibitors useful as antiviral agents)
 RN 124899-76-9 CA
 CN 1H-Imidazo[4,5-b]pyridine, 2-[[4-ethoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-5-methoxy- (9CI) (CA INDEX NAME)

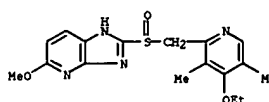
L12 ANSWER 46 OF 64 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 131:139269 CA
 TITLE: Effects of TU-199, a novel H⁺, K⁺-ATPase inhibitor, on gastric acid secretion and gastroduodenal ulcers in rats
 AUTHOR(S): Uchiyama, Kazuyuki; Wakatsuki, Daisuke; Kakinoki, Bunpei; Takeuchi, Yoshishige; Araki, Tsutomu; Morinaka, Yasuhiro
 CORPORATE SOURCE: Medicinal Research Group II, Kazusa Research Laboratories, Tokyo Tanabe Co. Ltd., Chiba, Japan
 SOURCE: Methods and Findings in Experimental and Clinical Pharmacology (1999), 21(2), 115-122
 CODEN: MFEPDX; ISSN: 0379-0355
 PUBLISHER: Prous Science
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB We studied the effects of TU-199, a novel H⁺, K⁺-ATPase inhibitor, on gastric acid secretion and gastroduodenal lesions in rats in comparison with those of omeprazole. TU-199 inhibited hog gastric H⁺, K⁺-ATPase activity and its potency was almost equal to that of omeprazole (IC50 = 6.2 and 4.2 µM, resp.). In vivo, TU-199 inhibited basal gastric acid secretion in pylorus-ligated rats in a dose-dependent manner (ED50 = 4.2 mg/kg p.o.). In gastric fistula rats, TU-199 (2.5 and 5 mg/kg i.d.) also inhibited gastric acid secretion stimulated by histamine, carbachol or tetragastrin. Furthermore, TU-199 prevented the formation of water-immersion restraint stress-, pylorus ligation- and indomethacin-induced gastric lesions, and nifedipine-induced duodenal ulcer in rats. These antisecretory and antiulcer effects of TU-199 were 2-4 times more potent than those of omeprazole. The results demonstrate that TU-199 potentially inhibits the acid secretion and formation of ulcers in various exptl. rat models via an inhibition of H⁺, K⁺-ATPase. These findings suggest that TU-199 may have a beneficial effect against peptic ulcer disease in humans.
 IT 113712-98-4, TU-199
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (effects of TU-199, a novel H⁺, K⁺-ATPase inhibitor, on gastric acid secretion and gastroduodenal ulcers in rats)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

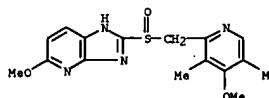
L12 ANSWER 45 OF 64 CA COPYRIGHT 2005 ACS ON STN (Continued)



REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 47 OF 64 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 131:125259 CA
 TITLE: The long-lasting effect of TU-199, a novel H⁺, K⁺-ATPase inhibitor, on gastric acid secretion in dogs
 AUTHOR(S): Uchiyama, Kazuyuki; Wakatsuki, Daisuke; Kakinoki, Bunpei; Takeuchi, Yoshishige; Araki, Tsutomu; Morinaka, Yasuhiro
 CORPORATE SOURCE: Medicinal Research Group II, Kazusa Research Laboratories, Tokyo Tanabe Company Limited, Chiba, 292-0812, Japan
 SOURCE: Journal of Pharmacy and Pharmacology (1999), 51(4), 457-464
 CODEN: JPPHAB; ISSN: 0022-3573
 PUBLISHER: Royal Pharmaceutical Society of Great Britain
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB We have used Heidenhain-pouch dogs to investigate the effects of (i)-5-methoxy-2-[[4-methoxy-3,5-dimethylpyrid-2-yl)methyl]sulfinyl]-1H-imidazo[4,5-b]pyridine (TU-199), an imidazopyridine derivative, on gastric acid secretion stimulated by histamine, carbachol and tetragastrin. We have also investigated the duration of the antisecretory effect of TU-199 using a measurement of intragastric pH for 24 h in gastric fistula dogs whose gastric acid secretion was stimulated by histamine. Single oral administration of TU-199 (0.1, 0.2 and 0.4 mg/kg) dose-dependently suppressed gastric acid secretion stimulated by histamine infusion. Oral treatment with TU-199 (0.2, 0.4 and 0.8 mg/kg) also dose-dependently inhibited acid secretion induced by carbachol and tetragastrin. The inhibitory effect of TU-199 on stimulated gastric acid secretion was more potent than that of omeprazole, a well-known H⁺, K⁺-ATPase inhibitor in dogs. Repeated oral treatment with TU-199 at a dose of 0.2 mg/kg once a day for seven days markedly suppressed histamine-stimulated gastric acid secretion in dogs. This inhibitory effect of TU-199 reached a maximum level after three or four doses and was more pronounced than that of omeprazole or lansoprazole. In gastric fistula dogs, the duration of intragastric pH-elevation by administration of TU-199 (0.3 mg/kg) was much longer than that of omeprazole (0.6 mg/kg) or lansoprazole (0.9 mg/kg). The IC50 values (doses resulting in 50% inhibition) of TU-199, omeprazole and lansoprazole with regard to H⁺, K⁺-ATPase activity in dog gastric mucosal microsomes were 8.6, 8.8 and 9.9 µM, resp. These results indicate that TU-199 inhibits gastric acid secretion via suppression of a H⁺, K⁺-ATPase activity. Our findings also suggest that TU-199 might have potent and long-lasting effects on gastric acid secretion.
 IT 113712-98-4, TU-199
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (ATPase inhibitor TU-199 long-lasting effect on gastric acid secretion)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



L12 ANSWER 47 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

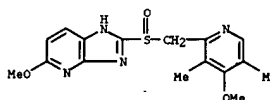
L12 ANSWER 48 OF 64 CA COPYRIGHT 2005 ACS on STN

131:96947 CA
 TITLE: Pharmacokinetic studies of (±)-5-methoxy-2-[[[4-methoxy-3,5-dimethylpyrid-2-yl)methyl]sulfinyl]-1H-imidazo[4,5-b]pyridine (TU-199). (V). Examination of drug interaction in plasma protein binding
 AUTHOR(S): Kinbara, Mihoko; Ishiwata, Tomoe; Morotome, Kazuo
 CORPORATE SOURCE: Kazusa Research Laboratories, Tokyo Tanabe Co., Ltd., Yana Kisarazu, 292-0812, Japan
 SOURCE: Iyakuhin Kenkyu (1999), 30(3), 128-133
 CODEN: IYKEDH ISSN: 0287-0894
 PUBLISHER: Nippon Koteisho Kyokai
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese

AB The present study was conducted to determine the types of protein to which TU-199 binds, and to examine whether 7 drugs (warfarin, diazepam, digitoxin, nifedipine, phenytoin, tolbutamide and propranolol) compete with TU-199 for binding to human plasma protein. In the evaluation of competitive binding, drugs were generally used at about 3 times their maximum

plasma concentration (Cmax) obtained after a single oral administration to humans. 1. TU-199 (5 µg/mL) binding rates with purified human albumin, α1-acidic glycoprotein and γ-globulin were 99.4%, 54.9% and 23.8%, resp. 2. The TU-199 (5 µg/mL) binding rate with human plasma protein was 99.7%. 3. Of the 7 drugs tested, tolbutamide significantly decreased TU-199's plasma protein binding rate from 99.7% to 99.3% at 150 µg/mL, but caused no significant decrease at 50 µg/mL (Cmax). The other 6 drugs had no effect on the binding of TU-199 with plasma protein. 4. TU-199 had no effect on the binding of the 7 drugs with plasma protein.

IT 113712-98-4, TU-199
 RL: BAC (Biological activity or effector, except adverse); EPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (pharmacokinetic studies of (±)-5-methoxy-2-[[[4-methoxy-3,5-dimethylpyrid-2-yl)methyl]sulfinyl]-1H-imidazo[4,5-b]pyridine (TU-199). (V). examination of drug interaction in plasma protein binding)
 RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



L12 ANSWER 49 OF 64 CA COPYRIGHT 2005 ACS on STN

131:96946 CA
 TITLE: Pharmacokinetic studies of (±)-5-methoxy-2-[[[4-methoxy-3,5-dimethylpyrid-2-yl)methyl]sulfinyl]-1H-imidazo[4,5-b]pyridine (TU-199). (IV). Plasma concentration of TU-199 in rats and dogs
 AUTHOR(S): Saito, Shinko; Sebata, Noriyuki; Ishiwata, Tomoe; Kinbara, Mihoko; Morotome, Kazuo
 CORPORATE SOURCE: Kazusa Research Laboratories, Tokyo Tanabe Co., Ltd., Yana Kisarazu, 292-0812, Japan
 SOURCE: Iyakuhin Kenkyu (1999), 30(3), 119-127
 CODEN: IYKEDH ISSN: 0287-0894
 PUBLISHER: Nippon Koteisho Kyokai
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese

AB Plasma concns. of TU-199 were determined after oral, i.v. and intraduodenal administration of TU-199 to rats and dogs. 1. After oral administration of TU-199 to non-fasting male rats at a dose of 2.5 mg/kg, the plasma concentration of TU-199 reached a maximum of 2.19 µg/mL at 0.26 h, and declined

exponentially with a half-life of 1.38 h. The bioavailability was 37.2%. In the case of intraduodenal administration, the bioavailability was 76.6%. 2. After oral administration of TU-199 to male rats at the doses of 2.5, 10, and 40 mg/kg, both Cmax and AUC0-∞ were closely proportional to the dose. 3. After oral administration of TU-199 to male rats, the plasma concentration was higher and the bioavailability was about

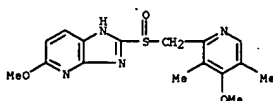
twice as high in fasting rats as compared with non-fasting rats. 4. After oral administration of TU-199 to male rats at a dose of 2.5 mg/kg, once a day for 7 days, the plasma concentration was similar to that after a single dose. 5.

After oral administration of TU-199 to female rats, the plasma concentration was higher and T1/2 was longer than in male rats, but bioavailability was similar in both sexes. 6. After oral administration of TU-199 to female dogs, the plasma concentration of TU-199 was similar to that in male dogs.

7. After oral administration of TU-199 to fasting male and female dogs at a dose of 2.5 mg/kg, the plasma concentration of TU-199 reached a maximum of 10.11 µg/mL at 0.53 h, and declined exponentially with the half-life of 1.57 h. The bioavailability was 78.3%.

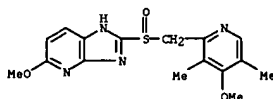
IT 113712-98-4, TU-199
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (pharmacokinetic studies of (±)-5-methoxy-2-[[[4-methoxy-3,5-dimethylpyrid-2-yl)methyl]sulfinyl]-1H-imidazo[4,5-b]pyridine (TU-199). (IV). Plasma concentration of TU-199 in rats and dogs)

RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)

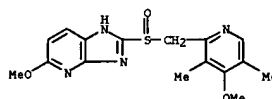


L12 ANSWER 49 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)

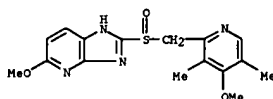
L12 ANSWER 50 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 130:320325 CA
 TITLE: Pharmacokinetic studies of TU-199. (III). Metabolism in rats and dogs
 AUTHOR(S): Kurosawa, Satoshi
 CORPORATE SOURCE: Tokai Res. Laboratories, Daiichi Pure Chemicals Co., Ltd., Japan
 SOURCE: Yakuri to Chiryō (1998), 26(12), 2017-2032
 CODEN: YACHDS; ISSN: 0386-3603
 PUBLISHER: Raifu Sainsu Shuppan K.K.
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 AB The pharmacokinetics of TU-199 were studied in rats and dogs following oral and i.v. administration. The results are discussed with regard to the metabolic pass way of TU-199.
 IT 113712-98-4, TU-199
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (pharmacokinetic studies of TU-199. (III). metabolism in rats and dogs)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (SCI) (CA INDEX NAME)



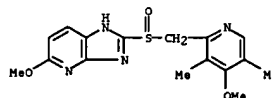
L12 ANSWER 51 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 130:306367 CA
 TITLE: Mutagenicity study on TU-199
 AUTHOR(S): Daigo, Hideo; Baba, Katsuyuki; Morotome, Kazuo
 CORPORATE SOURCE: Safety Evaluation Group Kazusa Res. Laboratories R & D Div., Tokyo Co., Ltd., Kisarazu shi, Chiba, 292-0812, Japan
 SOURCE: Yakuri to Chiryō (1998), 26(12), 1979-1992
 CODEN: YACHDS; ISSN: 0386-3603
 PUBLISHER: Raifu Sainsu Shuppan K.K.
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 AB A reverse mutation study using bacteria, a chromosomal aberration study using CHKL/IU cell and micronucleus test on TU-199, an anti-ulcer drug under development were conducted in mice. A reverse mutation study was performed using 5 bacterial strains (Salmonella typhimurium TA98, TA100, TA1535, TA1537 and Escherichia coli WP2 uvrA) by the direct method and the metabolic activation method by including a pre-incubation process. TU-199 did not increase the number of revertant colonies of any strain compared to the neg. controls in either the direct method or the metabolic activation method, indicating that it has no potential to induce reverse mutation. A chromosomal aberration study was performed using a Chinese hamster lung fibroblast cell line (CHL/IU) by the direct method and the metabolic activation method. After treatment with TU-199, the incidence of cells with structurally aberrant chromosomes was less than 5% in both the direct and metabolic activation methods, indicating that TU-199 does not induce chromosomal aberration. A micronucleus test was performed by oral administration in 8-wk-old male ICR mice. No significant increase was observed in the incidence of micronuclei in polychromatic or normochromatic erythrocytes after administration of TU-199, indicating that TU-199 does not induce micronuclei under the conditions of the present study. Thus, from the results of these three test, we concluded that TU-199 does not cause mutation.
 IT 113712-98-4, TU-199
 RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (mutagenicity study on TU-199)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (SCI) (CA INDEX NAME)



L12 ANSWER 52 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 130:306366 CA
 TITLE: Teratological study by oral administration of TU-199 in rabbits
 AUTHOR(S): Umemura, Tatsu; Ishikura, Toshikazu; Morohashi, Tetsuo; Tamaki, Yasushi; Morotome, Kazuo
 CORPORATE SOURCE: Kannami Lab. Bozo Res. Center Inc., Kannami-cho, Tagata-gun, Shizuoka, 419-0101, Japan
 SOURCE: Yakuri to Chiryō (1998), 26(12), 1969-1978
 CODEN: YACHDS; ISSN: 0386-3603
 PUBLISHER: Raifu Sainsu Shuppan K.K.
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 AB A study was conducted in which TU-199 was administered orally to New Zealand White (Kbl: NZW) SPF rabbits, at dose levels of 2, 10, 5 and 250 mg/kg, once daily for a period of 13 days from day 6 to day 18 of gestation, which corresponds to the period of fetal organogenesis, and the effects on dams and their fetuses were examined. 1) Dams: In the dams, no effects from administration of the test article were observed in the 10 mg/kg and below groups. In the 50 and 250 mg/kg groups, a decrease in or depressed body weight gains were seen during the administration period and food consumption was also low. In the 250 mg/kg group, there was a decrease in the amount of feces and the excretion of reddish brown urine was noted in many animals. There were also some animals which aborted. In addition, in the same group, stomach wts. showed significantly high values. However, in the macropathol. findings and findings at Cesarean section, no effects from administration of the test article were observed. 2) Fetuses: For the fetuses, no effects from administration of the test article were seen on survival and growth in any of the treatment groups and no teratogenic effects were observed. Based on the above results and under the conditions of this study, the no-effect dose level for TU-199 was determined to be 10 mg/kg for general toxicol. effects on dams, 50 mg/kg for reproduction, and 250 mg/kg for effects on fetuses, and at 250 mg/kg it was judged to have no teratogenic effects.
 IT 113712-98-4, TU-199
 RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (teratol. study by oral administration of TU-199 in rabbits)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (SCI) (CA INDEX NAME)



L12 ANSWER 53 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 130:306365 CA
 TITLE: Teratological study by oral administration of TU 199 in rats
 AUTHOR(S): Ishida, Shigeru; Fujioka, Minoru; Morohashi, Tetsuo; Tamaki, Yasushi; Morotome, Kazuo
 CORPORATE SOURCE: Gotemba Lab. Bozo Res. Center Inc., Gotemba City Shizuoka, 412-0039, Japan
 SOURCE: Yakuri to Chiryō (1998), 26(12), 1951-1968
 CODEN: YACHDS; ISSN: 0386-3603
 PUBLISHER: Raifu Sainsu Shuppan K.K.
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 AB A teratol. study was conducted in which TU-199 was administered orally by gavage to Crj:CD (SD) SPF rats, at dose levels of 4, 20, 100 and 500 mg/kg, for an 11-day period from day 7-17 of gestation, and the effects on dams, fetuses and newborn pups were examined. 1) Dams: In the general condition, reddish brown urine, thought to be discoloration caused by metabolites, was observed in the 500 mg/kg group. In the body weight and food consumption, mildly depressed body weight gains and a decrease in food consumption were seen in the 500 mg/kg group during the administration period. In the macropathol. findings and absolute organ wts. at Cesarean section and weaning, no effects from administration of the test article were observed. 2) Dams reproductive performance: There were no premature or aborted birth in any of the test groups and no effects from administration of the test article were observed in the Cesarean section data or parturition and lactation condition. 3) Fetuses: There was no decrease in the implantation index and no increase in the ratio of dead/resorbed fetuses in any of the test groups. In addition, there were no significant differences in the body weight of the live fetuses in each test group and no effects from administration of the test article were observed in the external, visceral and skeletal exams. 4) Newborn pups: No effects from administration of the test article were seen in any of the test groups in the external observation, body weight, viability, external differentiation, visceral examination of stillborn pups and pups that died, macropathol. findings at each stage, functional, behavioral and reproductive performance tests. Based on the above results and under the conditions of this study, it was determined that the general toxicol. no-effect dose level for dams was 100 mg/kg and the no-effect dose level for dams reproductive performance and for fetuses and newborn pups was 500 mg/kg.
 IT 113712-98-4, TU 199
 RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (teratol. study by oral administration of TU 199 in rats)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (SCI) (CA INDEX NAME)



ACCESSION NUMBER:

130:306364 CA

TITLE:

Thirteen-week oral toxicity study followed by five-week recovery study of TU-199 in beagle dogs
Okamoto, Masami; Takahashi, Eiji; Akai, Hiroyuki; Tamura, Kazutoshi; Tagishi, Soichiro; Morohashi, Tetuo; Morotome, Kazuo

AUTHOR(S):

CORPORATE SOURCE:

Kannami Lab. Bozo Res. Center Inc., Kannami-cho, Tagata-gun, Shizuoka, 419-0101, Japan

SOURCE:

Yakuri to Chiryo (1998), 26(12), 1923-1949
CODEN: YACHDS; ISSN: 0386-3603

PUBLISHER:

Raifu Sainsu Shuppan K.K.

DOCUMENT TYPE:

Journal

LANGUAGE:

Japanese

AB

A repeat administration toxicity study was conducted in which TU-199 was administered orally by gavage, at dose levels of 0.5, 5, 50 and 500 mg/kg to groups of 6 male and 6 female beagle dogs, daily for 13 wk. For 2 males and 2 females in each group, the drug was withdrawn for 5 wk and the reversibility examined. There were no deaths in males or females in the control group nor in any of the treatment groups. In the general condition, a high frequency of vomiting was seen in males and females in the 500 mg/kg group in week 1 or administration, and stool mixed with the test article was seen during the administration period in males and females in the 50 mg/kg and above groups. In the blood chemical, a high value for urea nitrogen was seen in males in the 500 mg/kg group. In the measurement of serum gastrin concentration, high values were seen in males

and

females in the 5 mg/kg and above groups. In the pathol. examination, changes in the stomach were seen in males and females in the 5 mg/kg and above groups and a change in the thyroid in males and females in the 500 mg/kg group. In the stomach, dilation and hypertrophy of the mucous membrane in the body of the stomach were seen macroscopically, and histol., hypertrophy together with edema and fibrosis of the mucous membrane in the corpus ventriculi, and increase in parietal cells, vacuolation of the parietal cells, dilation of the fundic glands and partial epithelial necrosis in the fundic glands were seen. In the thyroid, hypertrophy of the follicular epithelial cells was seen. No changes thought to be effects from administration of the test article were seen in the body weight,

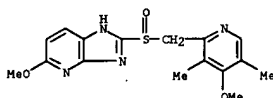
food consumption, urinalysis, hematology, ophthalmol. or electrocardiograms. In the recovery study with withdrawal of the drug for 5 wk, changes were seen only in the stomach and the other changes seen during the administration period were not observed. The changes in the stomach were, dilation and hypertrophy of the mucous membrane in the body of the stomach seen macroscopically in the 5 mg/kg and above groups, but histol., only a slight increase in parietal cells was seen in the 50 and 500 mg/kg groups, and the change was considered to be reversible. Based on the above results, the no-effect dose level of TU-199 in a 13 wk repeat administration toxicity study by oral administration in beagle dogs was judged to be 0.5 mg/kg day.

IT

RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(thirteen-week oral toxicity study followed by five-week recovery study of TU-199 in beagle dogs)

RN 113712-98-4 CA

CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



ACCESSION NUMBER:

130:306363 CA

TITLE:

Thirteen-week oral toxicity study followed by five-week recovery study of TU-199 in rats
Morohashi, Tetuo; Tagishi, Soichiro; Sakurada, Hiroshi; Sebata, Noriyuki; Morotome, Kazuo

AUTHOR(S):

CORPORATE SOURCE:

Safety Evaluation Group Kazusa Res. Laboratories R & D Div., Tokyo Tanabe Co., Ltd., Kisarazu-shi, Chiba, 282-0812, Japan

SOURCE:

Yakuri to Chiryo (1998), 26(12), 1897-1922
CODEN: YACHDS; ISSN: 0386-3603

PUBLISHER:

Raifu Sainsu Shuppan K.K.

DOCUMENT TYPE:

Journal

LANGUAGE:

Japanese

AB

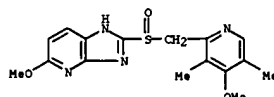
A short-term oral toxicity study of TU-199, which is expected to be useful as an anti-peptic ulcer drug, was conducted using rats as a part of its safety evaluation program. TU-199 was orally administered at 10, 30, 100 and 500 mg/kg for 13 wk. Reversibility was evaluated after a 5-wk drug-free rest period. No animal died during the study period and no change attributable to the test material was observed in body weight or food consumption. In the observation of general symptoms and urinalysis, males given 100 mg/kg or greater doses and females given 500 mg/kg showed red-brown urine, which was thought to reflect the color of metabolites. Changes attributable to the test material were observed mainly in the stomach, liver and thyroid. Regarding the stomach, males and females from all treated groups showed increases in weight and eosinophilia of secretory granules associated with hypertrophy of chief cells, changes which were thought to be due to pharmacol. activity of the drug. Males given 100 mg/kg or greater doses and females given 110 mg/kg or greater doses sporadically showed slight single-cell necrosis in the chief cell region. Males given 30 mg/kg or greater doses and females given 100 mg/kg or greater doses showed increases in liver weight and changes such as decreases in transaminase levels and increases in total cholesterol levels. Males and females given 500 mg/kg showed decreases in thyroid colloid. Males given 500 mg/kg also showed decreases in T3 levels and slight anemia. These changes were reversed or showed a tendency to reversal during a 5-wk drug-free rest period, indicating that they are reversible. In conclusion, the toxicol. no-observed effect level in males and females were thought to be 30 mg/kg and 10 mg/kg or below because single-cell necrosis were not observed in the chief cell region.

IT

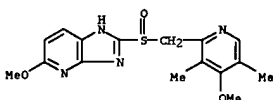
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(thirteen-week oral toxicity study followed by five-week recovery study of TU-199 in rats)

RN 113712-98-4 CA

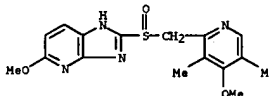
CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (9CI) (CA INDEX NAME)



L12 ANSWER 56 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 130:305993 CA
 TITLE: Pharmacokinetic studies of TU-199. (II). Absorption, distribution and excretion after multiple administration to rats and transfer into fetus and milk
 AUTHOR(S): Esumi, Yoshio
 CORPORATE SOURCE: Tokai Res. Laboratories, Daiichi Pure Chemicals Co., Ltd., Japan
 SOURCE: Yakuri to Chiryō (1998), 26(12), 2007-2016
 CODEN: YACHDS; ISSN: 0386-3603
 PUBLISHER: Raifu Sainsu Shuppan K.K.
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 AB The pharmacokinetics of TU-199 were studied in male and pregnant female rats following repeated and single administration, resp., using 14C-TU-199. The results are discussed with regard to tissue distribution and excretion and transfer into the fetus and milk during pregnancy.
 IT 113712-98-4, TU-199
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (pharmacokinetic studies of TU-199. (II). Absorption, distribution and excretion after multiple administration to rats and transfer into fetus and milk)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methylsulfinyl]- (9CI) (CA INDEX NAME)



L12 ANSWER 57 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 130:305992 CA
 TITLE: Pharmacokinetic studies of TU-199. (I). Absorption, distribution and excretion after single administration to rats and dogs
 AUTHOR(S): Esumi, Yoshio
 CORPORATE SOURCE: Tokai Res. Laboratories, Daiichi Pure Chemicals Co., Ltd., Japan
 SOURCE: Yakuri to Chiryō (1998), 26(12), 1993-2005
 CODEN: YACHDS; ISSN: 0386-3603
 PUBLISHER: Raifu Sainsu Shuppan K.K.
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 AB The pharmacokinetics of TU-199 e.g. absorption, distribution and excretion were studied in rats and dogs following oral or i.v. administration of 14C-TU-199.
 IT 113712-98-4, TU-199
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (pharmacokinetic studies of TU-199. (I). Absorption, distribution and excretion after single administration to rats and dogs)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methylsulfinyl]- (9CI) (CA INDEX NAME)

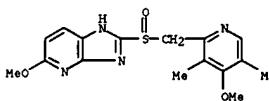


L12 ANSWER 58 OF 64 CA COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 124:212082 CA
 TITLE: Multiple unit pharmaceutical preparations containing proton pump inhibitor
 INVENTOR(S): Bergstrand, Pontus John Arvid; Loevgren, Kurt Ingmar
 PATENT ASSIGNEE(S): Astra Aktiebolag, Swed.
 SOURCE: PCT Int. Appl., 46 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9601624	A1	19960125	WO 1995-SE678	19950607
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2170644	AA	19960125	CA 1995-2170644	19950607
CA 2170995	AA	19960126	CA 1995-2170995	19950607
AU 9529938	A1	19960209	AU 1995-29938	19950607
AU 695971	B2	19980827		
EP 723437	A1	19960731	EP 1995-926055	19950607
EP 723437	B1	20040908		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1134667	A	19961030	CN 1995-190816	19950607
CN 1134668	A	19961030	CN 1995-190819	19950607
JP 09502740	T2	19970318	JP 1995-504249	19950607
HU 75934	A2	19970528	HU 1996-574	19950607
BR 9506028	A	19971014	BR 1995-6028	19950607
EE 3292	B1	20001016	EE 1996-32	19950607
PL 180598	B1	20010330	PL 1995-313388	19950607
RU 2166935	C2	20010520	RU 1996-107040	19950607
SK 283841	B6	20040302	SK 1996-300	19950607
EP 1452172	A2	20040901	EP 2004-11147	19950607
EP 1452172	A3	20041103		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV				
AT 275396	E	20040915	AT 1995-926055	19950607
CZ 294380	B6	20041215	CZ 1996-730	19950607
ES 2227556	T3	20050401	ES 1995-926055	19950607
TW 421599	B	20010211	TW 1995-84106116	19950615
US 5753265	A	19980519	US 1995-464774	19950622
ZA 9505546	A	19960108	ZA 1995-5546	19950704
ZA 9505547	A	19960108	ZA 1995-5547	19950704
IL 114447	A1	20020912	IL 1995-114447	19950704
FI 9601058	A	19960307	FI 1996-1058	19960307
FI 9601059	A	19960307	FI 1996-1059	19960307
NO 9600948	A	19960307	NO 1996-948	19960307
HK 1008298	A1	20050218	HK 1998-109226	19980717
PRIORITY APPLN. INFO.:				
SE 1994-2431	A			19940708
EP 1995-926055	A3			19950607
WO 1995-SE678	W			19950607

OTHER SOURCE(S): MARPAT 124:212082
 AB A new pharmaceutical multiple unit tableted dosage form containing an acid labile H⁺K⁺-ATPase inhibitor or an alkaline salt thereof or one of its single

L12 ANSWER 58 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)
 enantiomers or an alk. salt thereof is claimed. Tablet core contg. lansoprazole 400, sugar sphere seeds 400, HPMC 82, Na lauryl sulfate 3, and water 1600 were coated with a sepg. layer in a fluid bed app. contg. talc and Mg stearate and HPMC. An enteric coating soln. cong. methacrylic acid copolymer and polysorbate and glycerides was sprayed onto the pellets covered with sepg. layer in a fluid bed app. Enteric coating layer pellets 82 and microcryst. cellulose 191 g were mixed and compressed into tablets.
 IT 113712-98-4
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (multiple unit pharmaceutical preps. containing proton pump inhibitor)
 RN 113712-98-4 CA
 CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methylsulfinyl]- (9CI) (CA INDEX NAME)



10/507,485

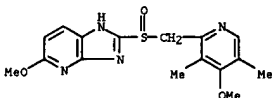
L12 ANSWER 59 OF 64 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 124:202255 CA
 TITLE: Preparation of sulfur-containing heterocyclic (H+/K+) ATPase inhibitors as antiviral agents
 INVENTOR(S): Moormann, Alan E.; Becker, Daniel P.; Flynn, Daniel L.; Li, Rui; Villamil, Clara I.
 PATENT ASSIGNEE(S): G. D. Searle and Co., USA
 SOURCE: PCT Int. Appl., 212 pp.
 CODEN: PIXKX2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9529897	A1	19951109	WO 1995-US5021	19950501
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GR, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9523950	A1	19951129	AU 1995-23950	19950501
US 5945425	A	19990831	US 1996-737251	19961024
US 2001047038	A1	20011129	US 2001-885221	20010620
US 6906078	B2	20050614		
PRIORITY APPLN. INFO.:				
US 1994-235619 A2 19940429				
WO 1995-US5021 W 19950501				
US 1996-659098 B1 19960604				
US 1999-377888 B1 19990819				
US 2000-605560 B1 20000627				

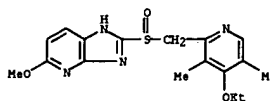
OTHER SOURCE(S): MARPAT 124:202255
 AB The title compds., which are (H+/K+) ATPase inhibitors, useful for the treatment of viral infections, are prepared and formulations containing then are
 claimed. Thus, 2-[(1H-benzimidazol-2-yl)sulfinylmethyl]-N,N-dimethylbenzenamine, m.p. 107-109°, was prepared and demonstrated a (H+/K+) ATPase IC50 of 0.7 µM.
 IT 124899-76-9P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of sulfur-containing heterocyclic (H+/K+) ATPase inhibitors as antiviral agents)
 RN 124899-76-9 CA
 CN 1H-imidazo[4,5-b]pyridine, 2-[(4-ethoxy-3,5-dimethyl-2-pyridinyl)methylsulfinyl]-5-methoxy- (9CI) (CA INDEX NAME)

L12 ANSWER 60 OF 64 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 123:179490 CA
 TITLE: Stabilized preparations containing antiulcer agents and inorganic salts
 INVENTOR(S): Matsushita, Tomohisa; Hashimoto, Akio
 PATENT ASSIGNEE(S): Tokyo Tanabe Co, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07157430	A2	19950620	JP 1994-242687	19941006
PRIORITY APPLN. INFO.:				
JP 1994-242687 A 19941006				
JP 1993-254048 19931012				
AB Stable preps. contain acid-labile antiulcer 2-[(2-pyridyl)methylsulfinyl]imidazo[4,5-b]pyridines and basic inorg. salts as stabilizers. TU-199 (1 g) was mixed with 1 g Al(OH)3 gel and left at 40° and 75% relative humidity for 2 wk to show no discoloration.				
IT 113712-98-4, TU 199				
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (stabilization of antiulcer imidazopyridines by inorg. basic salts)				
RN 113712-98-4 CA				
CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methylsulfinyl]- (9CI) (CA INDEX NAME)				



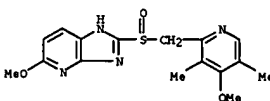
L12 ANSWER 59 OF 64 CA COPYRIGHT 2005 ACS ON STN (Continued)



L12 ANSWER 61 OF 64 CA COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 123:65832 CA
 TITLE: Tablet containing enteric granules
 INVENTOR(S): Matsushita, Tomohisa; Hashimoto, Mitsuo
 PATENT ASSIGNEE(S): Tokyo Tanabe Co. Ltd., Japan
 SOURCE: PCT Int. Appl., 13 pp.
 CODEN: PIXKX2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9510264	A1	19950420	WO 1994-JP1675	19941006
W: AU, CA, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2173506	AA	19950420	CA 1994-2173506	19941006
AU 9478222	A1	19950504	AU 1994-78222	19941006
AU 683092	B2	19971030		
EP 723777	A1	19960731	EP 1994-929012	19941006
EP 723777	B1	20020703		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 219931	E	20020715	AT 1994-929012	19941006
PT 723777	T	20021129	PT 1994-929012	19941006
ES 2179079	T3	20030116	ES 1994-929012	19941006
US 5798120	A	19980825	US 1996-624510	19960405
PRIORITY APPLN. INFO.:				
JP 1993-254049 A 19931012				
WO 1994-JP1675 W 19941006				

AB A tablet comprises enteric granules prepared by tableting a mixture of enteric granules containing a basis with at least one member selected from the group consisting of synthetic hydrotalcite, dried aluminum hydroxide gel, a coppt. of aluminum hydroxide with sodium hydrogencarbonate, aluminum magnesium hydroxide, synthetic aluminum silicate and dihydroxyaluminum aminoacetate. As compared with the conventional tablets containing coated granules, this tablet has the following advantages: the content of enteric granules is increased by using a specified filler; the basis is rapidly dispersed in the granules; the granules have drug-release ability and acid resistance comparable tablet has a high strength. The technique of preparing a tablet having a high enteric granule content has merits of an improved administrability due to a reduced size of the tablet and the applicability to other drugs.
 IT 113712-98-4
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Tablet containing enteric granules comprising hydrotalcite or other substances)
 RN 113712-98-4 CA
 CN 1H-imidazo[4,5-b]pyridine, 5-methoxy-2-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methylsulfinyl]- (9CI) (CA INDEX NAME)



10/507,485

L12 ANSWER 61 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)

L12 ANSWER 62 OF 64 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

120:164168 CA

TITLE:

Preparation of 5-methoxy-2-[[[4-methoxy-3,5-dimethyl-2-pyridyl)methyl]thio]imidazo[4,5-b]pyridine and its intermediates

INVENTOR(S):

Amano, Michiaki; Takeda, Haruki

PATENT ASSIGNEE(S):

Tokyo Tanabe Co, Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKKOAF

DOCUMENT TYPE:

Patent

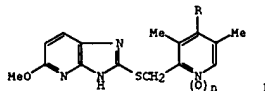
LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05222038	A2	19930831	JP 1992-25002	19920212
JP 3158599	B2	20010423		
PRIORITY APPLN. INFO.:			JP 1992-25002	19920212
OTHER SOURCE(S):		CASREACT 120:164168		
GI				



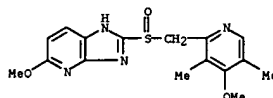
AB The title compound (I; R = MeO, n = 0) (II), useful as an intermediate for a known antiulcer agent, 5-methoxy-2-[[[4-methoxy-3,5-dimethyl-2-pyridyl)methyl]sulfinyl]imidazo[4,5-b]pyridine, is prepared. Thus, 4-chloro-2-chloromethyl-3,5-dimethylpyridine N-oxide was stirred with 2-mercapto-5-methoxyimidazo[4,5-b]pyridine in EtOH at 35° for 2.5 h to give 82% I (R = Cl, n = 1) which was refluxed with NaOMe in MeOH-PhMe for 4 h to give 71% I (R = MeO, n = 1). This was stirred with PCl3 in CH2Cl2 at room temperature for 3 h to give 95% II.

IT 113712-98-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(intermediate for, methoxy[[methoxydimethylpyridyl)methyl]thio]imidazo-
pyridine as)

RN 113712-98-4 CA

CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[[4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]- (SCI) (CA INDEX NAME)



L12 ANSWER 62 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)

L12 ANSWER 63 OF 64 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

112:77192 CA

TITLE:

Preparation of imidazo[4,5-b]pyridines as antiulcer agents and their pharmaceutical compositions

INVENTOR(S):

Matsuiishi, Naoto; Takeda, Haruki; Iizumi, Kenichi; Murakami, Seichi; Hisamitsu, Akira

PATENT ASSIGNEE(S):

Tokyo Tanabe Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKKOAF

DOCUMENT TYPE:

Patent

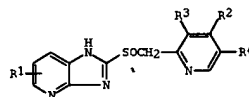
LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01190682	A2	19890731	JP 1988-10788	19880122
JP 06033261	B4	19940502		
PRIORITY APPLN. INFO.:			JP 1988-10788	19880122
OTHER SOURCE(S):		CASREACT 112:77192; MARPAT 112:77192		
GI				



AB Title compds. I (R1 = (cyclic alkyl-substituted) C1-4 linear or branched alkoxy, OCH2CF3; R2 = C2-4 linear or branched alkoxy, OCH2CF3; R3, R4 = H, Me), useful as antiulcer agents, are prepared. 2-Mercapto-5-methoxyimidazo[4,5-b]pyridine was treated with 2-chloromethyl-4-ethoxy-3,5-dimethylpyridine.HCl in EtOH at 60° for 2 h to give 87.8% 2-(2-(3,5-dimethyl-4-ethoxy)pyridylmethylthio)-5-methoxyimidazo[4,5-b]pyridine (II). Oxidation of II with m-chloroperoxybenzoic acid in CHCl3 at 0-5° for 10 min gave 80.6% corresponding sulfinyl compound, which at 1 x 10⁻³ M showed 100% inhibition against (H₂ + K⁺) ATPase, vs. 38.7% for omeprazole. A tablet formulation was given. Some of I had LD50 of 24000 mg/kg and ≥500 mg/kg in rats p.o. and i.p., resp.

IT 124899-76-9P

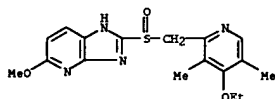
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as antiulcer agent)

RN 124899-76-9 CA

CN 1H-Imidazo[4,5-b]pyridine, 2-[[[4-ethoxy-3,5-dimethyl-2-pyridinyl)methyl]sulfinyl]-5-methoxy- (SCI) (CA INDEX NAME)

10/507,485

L12 ANSWER 63 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)



L12 ANSWER 64 OF 64 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 108:150480 CA

TITLE: Preparation, testing, and formulation of pyridylmethylsulfinylimidazopyridines as ulcer inhibitors

INVENTOR(S): Matsuiishi, Naoto; Takeda, Haruki; Iizumi, Kenichi; Murakami, Kiyokazu; Hisamitsu, Akira

PATENT ASSIGNEE(S): Tokyo Tanabe Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 28 pp.

CODEN: EPAXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

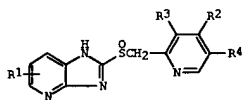
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 254588	A1	19880127	EP 1987-306570	19870724
EP 254588	B1	19920115		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 63146882	A2	19880618	JP 1987-133534	19870530
JP 06043426	B4	19940608		
AU 8775628	A1	19880128	AU 1987-75628	19870714
AU 598564	B2	19900628		
ZA 8705151	A	19880330	ZA 1987-5151	19870714
CA 1329204	A1	19940503	CA 1987-542637	19870721
HU 46000	A2	19880928	HU 1987-3407	19870724
US 4808596	A	19890228	US 1987-77686	19870724
AT 71626	E	19920215	AT 1987-306570	19870724
ES 2038184	T3	19930716	ES 1987-306570	19870724
PRIORITY APPLN. INFO.:				
			JP 1986-173551	A 19860725
			JP 1987-133534	A 19870530
			EP 1987-306570	A 19870724

OTHER SOURCE(S): CASREACT 108:150480; MARPAT 108:150480

GI



AB The title compds. [I; R1 = (cycloalkyl)alkoxy, fluoroalkoxy; R2 = H, Me, MeO; R3, R4 = H, Me] were prepared as ulcer inhibitors... 2-Mercapto-5-methoxyimidazo[4,5-b]pyridino-2-chloromethyl-3,5-dimethylpyridine.HCl, and KOH were refluxed 2 h in EtOH to give 2-[2-(3,5-dimethyl)pyridylmethylthio]-5-methoxyimidazo[4,5-b]pyridine. No procedure was given for oxidation of the latter to the corresponding I. I inhibited gastric acid secretion in rats with ED50's of 9-73 mg/kg orally.

IT 113712-98-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

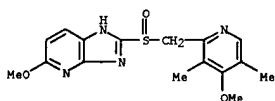
L12 ANSWER 64 OF 64 CA COPYRIGHT 2005 ACS on STN (Continued)

BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of, as ulcer inhibitor)

RN 113712-98-4 CA

CN 1H-Imidazo[4,5-b]pyridine, 5-methoxy-2-[[4-methoxy-3,5-dimethyl-2-pyridinyl)methylsulfinyl]- (9CI) (CA INDEX NAME)



10/507,485

=> d his

(FILE 'HOME' ENTERED AT 10:28:39 ON 02 AUG 2005)

FILE 'REGISTRY' ENTERED AT 10:28:43 ON 02 AUG 2005

L1	8 S TENATOPRAZOLE
L2	1 S TENATOPRAZOLE/CN
L3	STRUCTURE UPLOADED
L4	0 S L3 SAM
L5	STRUCTURE UPLOADED
L6	12 S L5 SAM
L7	197 S L5 FULL

FILE 'CA' ENTERED AT 10:31:04 ON 02 AUG 2005

L8	83 S L7
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FILE 'REGISTRY' ENTERED AT 10:31:10 ON 02 AUG 2005

L9	57 S L3 FULL
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FILE 'CA' ENTERED AT 10:31:23 ON 02 AUG 2005

L10	64 S L9
L11	30 S TENATOPRAZOLE
L12	64 S L10 OR L11

=> d his full

(FILE 'HOME' ENTERED AT 10:28:39 ON 02 AUG 2005)

10/507,485

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 1 AUG 2005 HIGHEST RN 857935-17-2
DICTIONARY FILE UPDATES: 1 AUG 2005 HIGHEST RN 857935-17-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
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Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

10/507,485

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SAT ----- Structure ATtributes and map table if it contains data.
SCT ----- Structure Connection Table and map table if it contains
              data.
SDA ----- All Structure DATA (image, attributes, connection table and
              map table if it contains data).
NOS ----- NO Structure data.
ENTER STRUCTURE FORMAT (SIM), NOS:display query l3 sia status
'DISPLAY QUERY L3 SIA STATUS' IS NOT A VALID STRUCTURE FORMAT KEYWORD
Structure Formats
SIA ----- Structure Image, Attributes, and map table if it contains
              data. (Default)
SIM ----- Structure Image.
SAT ----- Structure ATtributes and map table if it contains data.
SCT ----- Structure Connection Table and map table if it contains
              data.
SDA ----- All Structure DATA (image, attributes, connection table and
              map table if it contains data).
NOS ----- NO Structure data.
ENTER STRUCTURE FORMAT (SIM), NOS:end
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'SIA' IS NOT A VALID STRUCTURE FORMAT KEYWORD
Structure Formats
SIA ----- Structure Image, Attributes, and map table if it contains
              data. (Default)
SIM ----- Structure Image.
SAT ----- Structure ATtributes and map table if it contains data.
SCT ----- Structure Connection Table and map table if it contains
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10/507,485

=> LOG Y

STN INTERNATIONAL LOGOFF AT 10:33:46 ON 02 AUG 2005